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1982

Census of Construction Industries

CC82-A-3

GEOGRAPHIC AREA SERIES

East North Central States

Illinois, Indiana, Michigan, Ohio, Wisconsin



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The publications
from the 1982 Economic and
Agriculture Censuses are dedicated
to the memory of Shirley Kallek,
Associate Director for Economic Fields.
During her career at the Bureau of the
Census (1955 to 1983), she continually
directed efforts to improve
the timeliness and accuracy of
economic statistics.

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Issued April 1985



U.S. Department of Commerce
Malcolm Baldrige, Secretary
Clarence J. Brown, Deputy Secretary
Sidney Jones, Under Secretary for
Economic Affairs

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CONSTRUCTION DIVISION

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East North Central States

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ECONOMIC CENSUSES OVER TIME

The early beginnings of America's industrial output were first measured in the United States in the 1810 Decennial Census and again in 1820, when questions on manufacturing were included with those for population. Beginning with the 1840 Decennial Census, there were enumerations of manufactures and mineral industries at 10-year intervals up to and including the year 1900 for manufactures and 1940 for mineral industries. The latter census was taken again for 1954, 1958, 1963, and 1967.

Because of the increasing dominance of manufacturing in the early 20th century, Congress directed that quinquennial censuses of manufactures be taken beginning in 1905. However, from 1919 through 1939, these censuses were conducted every 2 years. The need for war-related current surveys in the early 1940's postponed the next census of manufactures until 1948 (for 1947). That census was again taken for 1954, 1958, 1963, and 1967.

Retail and wholesale trade data were first collected in 1930, and in 1933 information on selected service industries was added to the data-collection operation. These business censuses, as they were called, were again taken for 1935, 1939 (as part of the 1940 decennial program), 1948, 1954, 1958, 1963, and 1967.

Information on construction industries was first obtained in 1930 and again for 1935 and 1939. Data for the full spectrum of construction industries were not gathered again until 1968 (for 1967).

The need for transportation data to supplement information available from existing governmental or private sources was recognized by Congress in the late 1950's and early 1960's. The census of transportation (consisting of several surveys) was first taken for 1963 and again for 1967.

Since 1967, all of the above censuses have been taken quinquennially as part of the Census Bureau's economic census program. (For the 1977 censuses, the coverage of the service

industries was broadened from "selected services" to all services, except religious organizations and private households. A total of 41 additional four-digit standard industrial classifications¹ (SIC's) in 7 SIC major groups was added to the scope of the census. While most of the industries included for the first time for 1977 were covered again for 1982, some were not, i.e., hospitals; elementary and secondary schools; colleges, universities, and professional schools; junior colleges and technical institutes; labor unions and similar labor organizations; and political organizations.)

The first manufacturing census for an outlying area was conducted in Puerto Rico for the year 1909. Thereafter, with the exception of 1929, a census was taken at 10-year intervals through 1949. The first censuses of retail trade, wholesale trade, and selected service industries in Puerto Rico were conducted for 1939. These censuses also were taken for the years 1949, 1954, 1958, 1963, and 1967. A census of construction industries was first introduced in Puerto Rico for 1967. These censuses of Puerto Rico have been taken since then for the years 1972, 1977, and 1982.

Censuses of manufactures, retail trade, wholesale trade, and selected service industries were conducted in Guam and the Virgin Islands of the United States for 1958, 1963, 1967, 1972, 1977, and 1982. Censuses of mineral industries were taken in the Virgin Islands of the United States for the years 1958, 1963, and 1967 but not since that time. A census of construction industries was also undertaken in these areas for 1972, 1977, and 1982.

Retail trade, wholesale trade, selected service industries, manufacturing, and construction industries were canvassed for the first time in the Northern Mariana Islands in 1983 (for 1982).

For 1982, the economic censuses and agriculture censuses were conducted concurrently.

USES OF THE ECONOMIC CENSUSES

The economic censuses are the major source for facts about the structure and functioning of the Nation's economy and provide essential information for government, business, industry, and the general public. They provide an important part of the framework for such composite measures as the gross national product, input-output measures, indexes of industrial production, and indexes measuring productivity and price levels. Information from the censuses is used to establish sampling frames and as benchmarks for current surveys of business activity, which are essential for measuring short-term economic conditions.

¹Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No.041-001-00066-6. 1977 Supplement. Stock No. 003-005-00176-0.

State and local governments use census data to assess business activities within their jurisdictions. The private sector uses the data to forecast general economic conditions; analyze sales performance; lay out sales territories; allocate funds for advertising; decide on locations for new plants, warehouses, or stores; and measure potential markets in terms of size, geographic areas, kinds of business, and kinds of products made or sold.

Following every census, thousands of businesses and other users purchase reports. Likewise, census facts are widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. All 1982 data are available on microfiche from the U.S. Government Printing Office and most data on computer tape from the Census Bureau. Finally, the more than 50 State Data Centers also are suppliers of economic census statistics.

AUTHORITY AND SCOPE OF THE ECONOMIC CENSUSES

The economic censuses are required by law under title 13 of the United States Code, sections 131, 191, and 224, which directs that they be taken at 5-year intervals for the years ending in 2 and 7. The 1982 Economic Censuses covered manufacturing, mining, construction industries, retail trade, wholesale trade, service industries, and selected transportation activities. Special programs also cover minority-owned and women-owned businesses. The next economic censuses are scheduled to be taken in 1988 for the year 1987.

METHOD OF ACCOUNTING AND TIME COVERED

For the census report, respondents could use any system of accounting by which they maintained their books. Therefore, reports could be based on cash, accrual, or completion of contract methods of accounting.

A report was supposed to cover the calendar year 1982. If that involved considerable costs, fiscal year reporting was permitted if it did not produce great differences. However, all payroll and employment figures had to be reported for the calendar year.

CENSUS OF CONSTRUCTION INDUSTRIES—SCOPE AND CLASSIFICATION

The 1982 Census of Construction Industries covers all employer establishments (establishments with payroll) primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots as defined in the 1972 Standard Industrial Classification (SIC) Manual.¹ This industrial classification system has been developed by experts on classification in government and private industry under the guidance of the Office of Management and Budget and is in general use among government agencies and among organizations outside the government.

Contract construction—The SIC manual defines construction in three broad types of activity: (1) building construction by general contractors, (2) other construction by general contractors, and (3) construction by special trade contractors.

1. **Building construction by general contractors**—General building contractors are primarily engaged in the construction of dwellings, office buildings, stores, farm buildings, and other projects of a similar character.
2. **Other construction by general contractors**—Often referred to as heavy construction contractors, these contractors are primarily engaged in the construction of highways, streets, bridges, and tunnels; docks and piers; dams and water projects; sewage collection, treatment, and disposal facilities; storm sewer systems; air fields; and other heavy construction which involves either earth moving or the erection of structures and appurtenances, other than buildings.
3. **Construction by special trade contractors**—Special trade contractors are primarily engaged in specialized construction activities such as plumbing, painting, electrical work, carpentry, etc.

General contractors in both the building and the heavy construction field usually assume responsibility for an entire construction project, but may subcontract to others those portions of the project requiring special skills or equipment. Special trade contractors may work for general contractors, for other subcontractors, or may work directly for the owner of the property.

Construction on their own account, for sale—Operative builders are primarily engaged in constructing buildings or other structures on their own account, acting as their own general contractor. These structures are generally sold when completed. Investment builders, primarily engaged in construction on their own account for rent or lease, were not included within the scope of the construction census.

Subdividers and developers, except cemeteries—The SIC manual defines subdividers and developers, except cemeteries, as establishments engaged in subdividing real property into lots, except cemetery lots, and in developing it for resale on their own account or for others.

In this system, each establishment is assigned an industry code on the basis of its major activity.

Each establishment receiving a questionnaire was requested to report the percent of total business receipts for each kind-of-business activity engaged in during 1982. This information was used for the computer assignment of appropriate industry classifications. During this work, various tests were also made using other data reported on the questionnaire. The proportion of construction receipts to total business receipts was checked to verify that the establishment was primarily in construction. Also taken into consideration were the types of structures worked on during the year and the extent of work undertaken for other contractors.

Construction establishments often engage in various construction activities, but in only a few instances do the SIC industry categories take into consideration combinations of activities. An example is SIC 1711, which includes establishments primarily engaged in plumbing, heating, air conditioning, ventilation, and refrigeration work. It is necessary, however, to assign a single industry code to the establishment based on its major activity.

¹Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 041-001-00066-6. 1977 Supplement. Stock No. 003-005-00176-0.

Therefore, the statistics shown for an industry reflect not only the primary activity of the establishments in the industry, but also their secondary activities.

The structure of the Standard Industrial Classification System makes it possible to classify or tabulate establishments by major group (two-digit), industry group (three-digit), or industry (four-digit) according to the degree of detail available and needed.

ESTABLISHMENT BASIS OF REPORTING

The census of construction industries is conducted on an establishment basis. A "construction establishment" is defined as a relatively permanent office or other place of business which has been established for the management of more than a single project or job and is expected to be maintained on a continuing basis. Such "establishment" activities include, but are not limited to, estimating, bidding, scheduling, purchasing, supervising, and operating the actual construction work being conducted at one or more construction sites.

Exceptions to the "relatively permanent office" rule were that: (1) in case of joint ventures, a separate establishment report was required covering the joint venture entity even though established to undertake only a single project; and (2) to the extent that separate legal entities were set up to carry out only a given project or part of a project, then a separate establishment report was also required for each legal entity.

To the extent that several companies shared or operated out of a single office or place of business, each such legal entity engaged in construction was considered a separate establishment and each was requested to file the necessary "establishment" report covering the activities it conducted in or from that common office.

Companies with more than one construction establishment were required to submit a separate report for each such establishment operated during all or any part of 1982.

Separate construction reports were not required for each project or construction site. Aggregated information was included in the report of the construction establishment responsible for the work of the construction projects and sites.

If an establishment engaged in two or more distinctly different lines of economic activity (wholesale or retail trade, service, manufacturing, construction, mining, etc.) at the same place of business, it was requested to file a separate report appropriate to each activity, provided that the activity was of substantial size and separate records were maintained or substantially accurate estimates could be prepared.

If a separate establishment report could not be prepared for each activity, then a construction report was requested covering all activities of that establishment providing that the 1982 gross receipts from construction activities exceeded the gross receipts from each of its other activities.

An establishment is not necessarily identical with a "company" or "enterprise," which may consist of one or more establishments. The census of construction industries figures represent a summary of records for individual establishments rather than for companies. The census tabulations, therefore, differ from those prepared on a company basis.

Construction businesses with no payroll during 1982 (nonemployers) were not required to file census reports. Collection and tabulation of data for these businesses are described in the section on "Sample Design." Foreign construction activities were not included in this census.

SAMPLE DESIGN, ESTIMATION PROCEDURES, AND RELIABILITY OF ESTIMATES

The firms included in the 1982 Census of Construction Industries were identified as part of an operation common to all 1982 Economic Censuses. Construction firms were divided into employers (firms with payroll) and nonemployers (firms without payroll). Statistical information for the employers was obtained in the census by a survey which included all medium size and large employers and a sample of the smaller ones. Census reports were not required from the nonemployers. Statistics on them were obtained from administrative records of other agencies of the Federal Government based on information supplied directly to the agencies.

Employer Firms

Developing the sampling frame for employer firms—This operation started with obtaining a list of all construction firms in the active records of the Internal Revenue Service (IRS) which were subject to payment of Federal Insurance Contributions Act taxes. The basic source for this list has been the Internal Revenue Service Business Master File, a comprehensive list of firms engaged in business activities in the United States. The file contains the name, address, and form of ownership of each firm and also indicates whether or not the firm is subject to the Federal Insurance Contributions Act. Each firm in this file is assigned a unique employer identification (EI) number which it uses in filing its various reports with the IRS. The Social Security Administration (SSA) maintains a similar list using the same identification numbers, which also contains information on the industrial classification of each firm. The Bureau of the Census obtained both of these lists and combined them.

Under special arrangements which safeguarded the confidentiality of the information, the Bureau also obtained administrative-record data on payrolls and receipts and added these data to the combined list. The list, thus created from the IRS-SSA information, was a list of employer firms. However, for the 1982 Economic Censuses the basic reporting unit is the "establishment." Therefore, steps were taken to identify the individual establishments of those firms which operate more than one place of business. The information for making this determination was obtained by means of the Company Organization Survey (COS), an annual canvass of all known multiestablishment firms and large single-establishment firms. Thus, the 1982 Economic Census list for single-establishment employer firms was obtained from the IRS-SSA, but the list of establishments of multi-establishment employer companies was obtained directly from those companies in the COS.

In general, the IRS-SSA list provided sufficient industrial classification data to assign a firm to the proper economic census, but there were a number of firms for which this information was inadequate or unavailable. A special form, NC-9923, General Report, was mailed to all such firms, requesting information on the nature of the firm's activities. From the information reported, the firm was given an industrial classification code and assigned to the appropriate economic census. Since construction firms found in this way were identified as such, only after the regular census mailing had taken place, they were treated as a supplement to the basic list.

For 1982, some data will be published for Standard Consolidated Statistical Areas (SCSA's) and selected Standard Metropolitan Statistical Areas (SMSA's). Therefore, each establishment was assigned to an SMSA code or to the balance of a State. The balance of the State was considered to be a separate cell for the selection process. In States where none of the SMSA's had more than 500,000 inhabitants in the 1970 Decennial Census, all establishments were assigned to the balance of the State.

Selecting the employer sample—A construction universe of about 464,000 single establishment employer firms and 6,500 multiestablishment employers, accounting for another 13,000 construction establishments, was developed by the procedures described above. From this universe, a sample of 172,000 employer establishments was selected. This sample was generally organized by standard industrial classification (SIC) in State sequence. The sample was designed to provide publishable estimates for the most construction industries at the State and selected SMSA level. It consisted of all construction establishments in multiestablishment companies, all single-establishment companies with the payroll equivalent of 20 employees or more, and a sample of single-establishment companies with less than 20 employees. There were three SIC's for which this standard plan was not used: SIC 1622, Bridge, Tunnel, and Elevated Highway Construction Contractors; SIC 1795, Wrecking and Demolition Work Special Trade Contractors; and SIC 1796, Installation or Erection of Building Equipment Special Trade Contractors.

The number of establishments classified in each of these three industries is very small and consequently, all single-unit establishments in these three industries were included in the sample. For sampling purposes, the number of employees was estimated from the 1981 payroll data in the administrative records, using an industry average wage per employee. The sampling was accomplished using a systematic method within each four-digit SIC. If the SIC code for an establishment was not complete, it was sampled as part of a two-digit group (e.g., 1520 was sampled as 1500, 1620 as part of 1600) except for non-classifiable cases in two-digit group 17. These were sampled as part of 1799 which is Special Trade Contractors, Not Elsewhere Classified. For the establishments with less than 20 employees, the sample was selected by sorting the establishments into State by SMSA by SIC by payroll sequences, and drawing a systematic sample of at least two establishments within each cell, with the probability of selection being proportional to the 1981 payroll. If the State-SMSA-SIC cell had two or less establishments in the frame, all establishments were selected (a 100-percent sample). A 100-percent sample was taken of the construction firms identified from the NC-9923, General Report, and of the transfers from other census trade areas. These latter cases were identified during the processing stages. These were caused either by changes of activity in the firm since the last updating of the classification file, or errors in the mailout classification. These cases were all added to the construction census, with certainty.

Estimation procedures for 1982 and 1977 data—Since all larger employer firms and some smaller ones were included in the census, sample estimation was required only for the universe of firms not selected with certainty. The published statistics are the totals of the estimates for the sampled firms and the

aggregates for the certainty (larger) firms. All estimates for 1982 and 1977 published here are simple unbiased estimates of the form:

$$x'_c = \frac{\sum_{i=1}^{n_c} x_i}{n_c}$$

where: x'_c is the simple unbiased estimate of a characteristic for a publication cell.

x_i is the reported value of a characteristic for an individual establishment in the publication cell.

p_i is the selection probability of that firm.

n_c is the number of firms in the sample for the cell.

This method of estimation was used for all 1982 and 1977 characteristics. Before this formula was applied, it was necessary to convert into dollars those distributions of construction receipts which had been reported by the establishments as percentages—construction receipts by type of project, location of project, etc.

Reliability of employer statistics—Since the estimates for employer establishments in these reports are based on the samples, they are subject to sampling variability and may be expected to differ from results which would have been obtained if a complete census had been taken using the same forms and procedures. The sampling errors shown in the tables were estimates directly from the sample reports, using methods appropriate for the sample design and form of estimation used.

The relative standard error is a measure of sampling variability, i.e., the variation that might occur by chance because only a sample of the population is surveyed. As calculated for this report, the relative standard error also partially reflects the effect of random errors of response and processing, but it does not take into account the effect of any consistent biases due to those types of errors. The chances are about 68 out of 100 that an estimate from the sample would differ from a complete census by less than the relative standard error. The chances are about 95 out of 100 that the difference is less than twice the relative standard error and about 99 out of 100 that it is less than 2-1/2 times the relative standard error. Individual estimates with large relative standard errors have been shown in the published tables. Any such estimates should be used with caution. The very large relative standard errors generally occur for the smaller estimates.

Although relative standard errors have been calculated for all of the published statistics, they are shown for each statistic only in the tables presenting detailed statistics. The other tables show relative standard errors only for some characteristics because of lack of space.

Separate measures of reporting and processing errors are not available. However, estimates which were subject to large errors of these types are likely to have been detected and corrected, or withheld from publication in the process of the review of the data for reasonableness and consistency. Other specific qualifications of the published data are indicated in footnotes to the tables.

The statistics in this report were based on data received by the time of final publication. Data were imputed for

establishments that did not report by that date. Selected establishments were contacted again to obtain as much information on the telephone as possible. Late data received in early 1984 were substituted for imputed data when the difference between the two was significant. Some publication cells in which more than 50 percent of the data were imputed have been suppressed.

Nonemployer Firms

General—As described earlier, the information derived from the business income tax returns of all firms was matched to the census employer file on the basis of common identification numbers. Those business income tax returns which could not be matched, were further classified on the basis of several characteristics. Returns with characteristics consistent with firms without payroll were treated as nonemployers. The nonemployer construction firms were not required to file census reports.

For "number of establishments," each separate income tax return was assumed to be an establishment. "All business receipts" was based on receipts information reported on the tax return. In 1982, this group accounted for 60 percent of the total number of construction establishments, but accounted for only 8 percent of all business receipts of all construction establishments.

Qualifications to the nonemployer data—Since no sampling was involved in the nonemployer establishments, the statistics for nonemployers are not subject to sampling variability. However, these data are subject to an unknown amount of reporting and processing errors which could not be detected by the Census Bureau.

CENSUS REPORT FORMS

Information for the 1982 Census of Construction Industries was obtained from employer establishments primarily through the use of eight questionnaires, determined by industry classification and size. Standard forms and short forms were developed for each of the three two-digit SIC groups (15, 16, and 17), and for the establishments classified in SIC 6552. Establishments with 50 or more employees all received the standard form. A sub-sample of establishments with fewer than 50 employees received short forms instead of the standard forms. The short forms covered only major items and omitted most of the detail found in the longer forms.

In reviewing and developing the questionnaires, comments and recommendations were solicited from construction trade associations and appropriate advisory groups. The Census Bureau surveyed several thousand firms representing all economic activities to gain insight into the way companies maintain records and to see whether new information could be collected.

DATA PROCESSING

The 1982 census report forms were mailed out in December 1982. Collection of these report forms, also by mail, was essentially completed in July 1983. They were mailed from and

returned to the Census Bureau's Data Preparation Division in Jeffersonville, Ind., where routine editing and coding of the report forms were also accomplished.

The returned reports underwent extensive processing. A preliminary edit done at the time of data entry identified obviously deficient reports and reports needing clarification. When necessary, these problems were resolved by further contact with the respondents. Next, the data were transmitted to Census Bureau headquarters in Washington, D.C.

Data records, then, underwent a detailed computer review and analysis. The records containing significant problems were referred for further analytical review and, if necessary, contacts were made with the respondents. The computer performed most classification coding (such as industry coding, geographic coding, and size coding) and imputation for missing items or for the small number of reports not received in time for tabulation. The imputation was performed on an industry (or industry group)-State (or geographic group) basis using all available response and administrative data.

The data records were then tabulated on an industry basis. Industry totals were subjected to analytical review, and selected statistics were prepared for the preliminary reports. Corrections resulting from this review were made to the computer records and final tabulations were produced.

The review of a preliminary report for an industry often uncovered the need for corrections or revisions to the data for another industry for which a preliminary report had already been published. The final reports incorporate all revisions and corrections made during the review of the preliminary reports and contain considerable more data than were published in those reports.

GEOGRAPHIC CLASSIFICATION

Information for the 1982 Census of Construction Industries' final industry report series is classified on the basis of two types of geographic distributions: (1) physical location of the establishment, and (2) location of construction work. Separate State codes were assigned based on this information.

The geographic area reports series presents similar data by industry for each State (physical location of the establishment) and for selected SCSA's and SMSA's.

DUPLICATION IN RECEIPTS

The aggregate of construction receipts reported by all construction establishments in each of the several industry, geographic area, or other groupings in this census, contains varying amounts of duplication, since the construction work (and the receipts) of one firm may be subcontracted to other construction firms and also be included in the subcontractors' receipts. To avoid this duplication, a "net construction receipts" figure has been derived for each establishment by subtracting the payments made for construction work subcontracted to others from the total construction receipts.

Duplication in receipts between other construction and non-construction industries results from the use of products of these other industries as input materials by construction establishments. "Value added," avoids this duplication and is, for most purposes, the best measure for comparing the relative economic importance of industries or areas. "Value added," is

defined in the 1982 Census of Construction Industries as equal to all business receipts less payments for construction work subcontracted to others and payments for materials, components, supplies, and fuels. However, for SIC 6552 and SIC 1531 where land receipts are significant, value added is defined as equal to all business receipts less land receipts, payments for construction work subcontracted to others, and payments for materials, components, supplies, and fuels.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1982 Census of Construction Industries may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies), as are the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact and detailed specifications of the type and format of the data to be provided, should be directed to the Chief, Construction Statistics Division, Bureau of the Census, Washington, D.C., 20233.

To discuss a special tabulation before submitting specifications, call 301-763-5435.

RELATIONSHIPS OF THE ECONOMIC CENSUSES TO CURRENT SURVEYS

The Census Bureau also conducts current surveys (monthly, quarterly, and annually) to keep abreast of the rapid changes in business conditions, new processes, new materials, and shifting demands of goods and services. The census universe provides the sampling frame, weights, and benchmarks on which some of these current surveys are based. The accuracy of the measures derived from these current surveys is directly related to the completeness of information provided in the censuses.

COMPARABILITY OF CENSUS OF CONSTRUCTION INDUSTRIES DATA WITH OTHER DATA

Data contained in the reports of the 1982 Census of Construction Industries are not the same as the data published in the Census Bureau's monthly Construction Reports, Series C30, Value of New Construction Put in Place. The main difference is that the C30 series covers all new construction put in place without regard to who is performing the construction activity, whereas, the construction census figures cover both new construction and

maintenance and repair work, but only for establishments classified in the construction industry. Force account construction activity—construction work performed by the labor force of a nonconstruction company for itself, or by other entities (Federal, State, or local governments) for themselves, or by property owners for themselves—probably accounts for more than half of the difference in the data of the two series of reports. Other factors contributing to the difference are that the census data do not include: (1) the value of materials supplied by the owners of projects, (2) the value of separate architectural and engineering services and, to a lesser extent, (3) the value of construction work performed for others by firms outside the scope of construction (manufacturers who install, lumber yards and other businesses, etc.).

Data contained in the reports of the census of construction industries may also differ from industry data in "Employment and Earnings Statistics," published by the Bureau of Labor Statistics, and "Statistics of Income," published by the Internal Revenue Service. These differences arise from varying definitions of scope, coverage, timing, classification, and methodology. Their effect is not fully known.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

- * Sampling error exceeds 40 percent.
- ** All employees (average) is the sum of construction workers during pay period including 12th of March, May, August, and November divided by 4, added to all others, March 12th.
- Represents zero.
- † Represents total construction receipts less payments for construction work subcontracted to others. (See Duplication in Receipts.)
- †† Represents all business receipts less payments for construction work subcontracted to others, and payments for materials, components, supplies, and fuels. In SIC's 1531 and 6552, land receipts are also subtracted from "all business receipts." (See Duplication in Receipts.)
- ‡ Possible duplication in data. (See Duplication in Receipts.)
- (D) Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
- (NA) Not available.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate, associated standard error, or a consistency review.
- (W) Greater than zero but less than 1 percent.
- n.s.k. Not specified by kind.

Users' Guide for Locating Statistics in This Report by Table Number

Statistics	By State	By industry	By employ- ment size	By receipts size	By type, class, ownership, kind of business, and location of construction ¹	By SCSA and SMSA ²
Assets and depreciation (gross book value):						
Beginning of year—structures, machinery and equipment	5					
End of year—total	3, 5	3	7	8		
End of year—structures, machinery and equipment	5					
Depreciation charges during the year— structures, machinery and equipment	5					
Capital expenditures:						
Total capital expenditures	3, 5	3	7	8		12
New structures—machinery and equipment	5					
Used structures—machinery and equipment	5					
Communication services, payments for	4					
Employees:						
All employees—average number	1, 3	3	7	8		12
Construction workers—average number	3, 4, 10	3, 10				
Other employees—March	4					
Employer costs for fringe benefits—legally required and voluntary expenditures	4					
Establishments:						
Number in business at end of year	4					
Number in business during the year:						
All	1			2		
With payroll	1, 3, 4, 6, 10	3, 10	7	2, 8		12
Without payroll	1			2		
Hours—construction workers:						
Total	3, 4, 10	3, 10	7	8		
Quarterly	4, 10	10				
Inventories	6					
Materials, components, supplies, and fuels— payments for	3, 4	3	7	8		12
Payroll:						
First quarter, all employees	4					
Annual:						
All employees	3, 4	3	7	8		12
Construction workers	3, 4	3				
Other employees	4					
Power, fuels, and lubricants—payments for	4					
Proprietors and working partners:						
All establishments	1			2		
Establishments with payroll	1, 4			2		
Establishments without payroll	1			2		
Ratios, industry	11	11				
Receipts:						
All business receipts:						
All establishments	1			2		
Establishments with payroll	1, 4		7	2, 8		
Establishments without payroll	1			2		
Construction receipts, total	3, 4, 6	3	7	8	4, 9	12
For work subcontracted in from others	4					
Other business receipts and land receipts	4					
Net construction receipts	3, 4	3	7	8		12
Value added	3, 4	3	7	8		12
Rental payments:						
Total	3, 4	3	7	8		
For machinery and equipment	4					
For structures	4					
Repairs to structures and related facilities	4					
Repairs to machinery and equipment	4					
Storage capacity for fuels ³	4					
Subcontract work to others, payments for	3, 4	3	7	8		12

Note: Data for 1977 and earlier years are also available in some of these tables.

¹Type—buildings, roads, etc. Class—new construction or maintenance and repair work. Ownership—private or government owned.

²SCSA—Standard Consolidated Statistical Area; SMSA—Standard Metropolitan Statistical Area.

³Storage capacity for fuels shown only for SIC's 1611, 1622, 1623, and 1629.

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SUMMARY OF FINDINGS

During 1982, 54,145 establishments in Illinois operated primarily as general contractors or operative builders, special trade contractors, or subdividers and developers. These establishments had business receipts of \$15.4 billion.

Tables 1 and 2 of this report provide summary statistics for all establishments, establishments with paid employees, and for those with no payroll.

The 35,827 establishments in this State with no payroll accounted for about 12 percent of all business receipts for all construction establishments in Illinois. On the other hand, 18,318 establishments classified as "employers" accounted for 88 percent of all business receipts.

Tables 3 through 12 in this report provide considerably more detailed information for employers. In 1982, all business receipts for these establishments amounted to \$13.5 billion, of which \$13.1 billion were receipts for construction work. These establishments paid \$3.0 billion for construction work subcontracted to others, leaving net construction receipts of about \$10.1 billion. Value added for these establishments amounted to \$6.6 billion. (See Introduction and appendixes for explanation of terms.)

Construction establishments with payroll located in Illinois paid \$3.6 billion for materials, components, and supplies purchased for use in construction work for others; purchased and subsequently provided to subcontractors for their use; purchased and then resold to others; and purchased and used in construction work for own account. However, materials furnished to contractors by owners of projects are not included. Payments of \$268

million were also made for selected power, fuels, and lubricants purchased during the year from other companies or received from other establishments of the parent company.

Average employment during 1982 for construction establishments with payroll in Illinois was 171 thousand employees. Hours worked by construction workers during the first quarter of 1982 were 44.2 million hours, while hours worked during the third quarter were 58.8 million hours.

Total payroll for 1982 was \$3.8 billion. Payments of \$668 million for employer costs for fringe benefits (not included in payroll) represent such expenditures during the year as employers' Social Security contributions, unemployment compensation, pension plans, and welfare plans.

The 1982 estimates for establishments with payroll are based on a probability sample of about 172,000 construction establishments in the United States. The estimates for Illinois are based on a sample of about 7,600 of these establishments. Statistics for the nonemployers were based on administrative records of the Federal Government.

The statistics reported by each establishment cover all of its activities, not just construction. Therefore, aggregates of such data for a State reflect not only the primary construction activities of the establishments in the State, but also their secondary construction activities, and any nonconstruction activities.

All data shown are based on current dollars for the years specified and have not been adjusted for price changes or for inflation between 1977 and 1982.

Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
			Proprie- tors and working partners	All em- ployees**	All business receipts		Proprie- tors and working partners	All business receipts		Proprie- tors and working partners	All em- ployees**	All business receipts		
		Number				Number			Number					
		A	B	C	D	E	F	G	H	I	J	K	J	K
15,16, 17	1982													
	Construction industries and subdividers and developers-----	54 145	45 085	170 822	15 376 877	35 827	35 847	1 914 116	18 318	6 238	170 822	13 462 761	1	(W)
	Construction Industries¹-----	53 336	41 305	169 865	15 108 943	35 184	35 088	1 717 690	18 152	6 217	169 872	13 391 261	1	(W)
	General building contractors and operative builders-----	10 923	7 867	33 491	4 711 860	6 711	6 495	643 341	4 212	1 372	33 492	4 068 520	1	1
	Heavy construction, general contractors _	1 988	1 178	27 368	2 862 701	922	929	261 070	1 066	249	27 369	2 601 632	1	1
17	Special trade contractors-----	40 425	32 260	109 006	7 534 382	27 551	27 664	813 279	12 874	4 596	109 011	6 721 109	1	1
1711	Plumbing, heating, and air conditioning----	5 108	3 302	23 125	1 686 009	2 314	2 317	117 066	2 794	985	23 125	1 568 943	1	1
1731	Electrical work-----	3 399	2 190	20 347	1 432 638	1 830	1 807	62 940	1 569	383	20 347	1 369 698	1	(W)
6552	Subdividers and developers, n.e.c.²-----	802	777	950	267 926	643	759	196 426	159	18	950	71 500	5	5
15,16, 17	1977													
	Construction industries and subdividers and developers-----	51 374	43 072	210 454	13 374 306	30 326	31 237	1 036 498	21 048	11 835	210 454	12 337 808	1	(W)
	Construction Industries¹-----	50 671	42 240	208 836	12 978 426	29 795	30 472	876 700	20 876	11 768	208 836	12 101 726	1	(W)
	General building contractors and operative builders-----	11 684	9 051	51 605	4 979 005	5 191	5 333	387 220	6 493	3 718	51 605	4 591 785	1	1
	Heavy construction, general contractors _	2 321	1 660	39 264	2 353 637	1 057	1 071	45 261	1 264	589	39 264	2 308 376	1	(W)
17	Special trade contractors-----	36 666	31 529	117 967	5 645 784	23 547	24 068	444 219	13 119	7 461	117 967	5 201 565	1	1
1711	Plumbing, heating, and air conditioning----	4 786	3 543	23 431	1 295 672	2 127	2 153	55 871	2 659	1 390	23 431	1 239 801	1	1
1731	Electrical work-----	3 287	2 438	20 052	931 057	1 691	1 728	54 588	1 596	710	20 052	876 469	1	1
6552	Subdividers and developers, n.e.c.²-----	706	833	1 619	395 885	531	765	159 798	175	68	1 619	236 087	13	5

¹For establishments without payroll, may also include data for construction establishments not classified to two-digit industry detail.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. Summary Statistics for Establishments With and Without Payroll by Receipts Size Class: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	All business receipts	Number	Proprietors and working partners	All business receipts	Number	Proprietors and working partners	All employees**	All business receipts		
	A	B	C	D	E	F	G	H	I	J	K	J	K
1982													
The State	54 145	42 085	170 822	15 376 877	35 827	35 847	1 914 116	18 318	6 238	170 822	13 462 761	1	(W)
\$10,000,000 or more	210	41	42 449	5 546 892	17	20	573 023	193	21	42 449	4 973 869	(W)	(W)
\$5,000,000 to \$9,999,999	264	39	18 847	1 779 085	8	14	56 591	256	25	18 847	1 722 494	(W)	(W)
\$2,500,000 to \$4,999,999	512	49	20 499	1 787 743	26	33	89 278	486	16	20 499	1 698 465	(W)	(W)
\$1,000,000 to \$2,499,999	1 296	112	25 351	1 994 561	60	56	86 186	1 236	56	25 351	1 908 375	1	2
\$500,000 to \$999,999	1 815	328	18 818	1 276 236	152	159	103 399	1 663	169	18 818	1 172 837	2	3
\$250,000 to \$499,999	2 909	894	15 938	1 027 867	368	339	126 023	2 541	555	15 938	901 844	3	3
\$100,000 to \$249,999	6 576	3 874	16 701	1 019 258	1 739	1 759	256 526	4 837	2 115	16 701	762 732	3	3
\$50,000 to \$99,999	6 665	5 153	6 888	473 119	3 472	3 568	239 669	3 193	1 585	6 888	233 450	4	3
\$25,000 to \$49,999	7 130	6 100	2 911	252 115	5 378	5 404	187 741	1 752	696	2 911	64 374	6	4
Less than \$25,000	26 765	25 492	2 418	219 998	24 607	24 495	195 680	2 158	997	2 418	24 318	4	4
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	8 515	8 474	135 048	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	5 773	5 751	39 099	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999	(NA)	(NA)	(NA)	(NA)	5 984	5 967	17 198	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000	(NA)	(NA)	(NA)	(NA)	4 335	4 303	4 335	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1977													
The State	51 374	43 072	210 454	13 374 306	30 326	31 237	1 036 498	21 048	11 835	210 454	12 337 808	1	(W)
\$10,000,000 or more	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000,000 to \$9,999,999 ²	374	73	60 940	4 846 131	10	18	102 806	364	55	60 940	4 743 325	(W)	(W)
\$2,500,000 to \$4,999,999	528	69	25 677	1 808 475	17	28	54 013	511	41	25 677	1 754 462	(W)	1
\$1,000,000 to \$2,499,999	1 431	212	34 467	2 184 214	61	70	89 535	1 370	142	34 467	2 094 679	1	1
\$500,000 to \$999,999	2 139	781	25 676	1 491 485	184	215	123 473	1 955	566	25 676	1 368 012	1	2
\$250,000 to \$499,999	3 444	1 657	25 063	1 209 764	253	272	87 180	3 191	1 385	25 063	1 122 584	2	3
\$100,000 to \$249,999	6 425	4 688	22 197	1 016 936	968	1 143	145 357	5 457	3 545	22 197	871 579	3	3
\$50,000 to \$99,999	5 632	4 875	9 018	393 381	1 901	2 104	129 051	3 731	2 771	9 018	264 330	5	4
\$25,000 to \$49,999	6 175	5 760	4 415	219 106	3 658	3 848	126 375	2 517	1 912	4 415	92 731	7	6
Less than \$25,000	25 226	24 958	(S)	204 815	23 274	23 539	178 708	(S)	(S)	(S)	(S)	-	-
\$10,000 to \$24,999	9 025	8 921	2 278	142 018	7 711	7 857	119 217	1 314	1 064	2 278	22 801	11	9
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	5 823	5 899	39 706	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999	(NA)	(NA)	(NA)	(NA)	5 921	5 966	16 958	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500	(NA)	(NA)	(NA)	(NA)	3 819	3 817	2 827	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²Data for this size class includes establishments with receipts of \$10,000,000 or more, which were not tabulated separately.

Table 3. General Statistics for Establishments With Payroll by Industry: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1982							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Total construction receipts	Net construction receipts†
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
	Construction Industries and subdividers and developers	18 318	170 822	136 888	3 763 634	2 914 586	209 902	13 109 617	10 119 024
15,16, 17	Construction Industries:								
15	General building contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	2 458	9 931	8 177	133 786	103 789	10 679	638 528	468 365
1522	Other residential buildings	245	2 782	2 056	52 709	36 275	2 764	346 589	127 095
1531	Operative builders	316	2 086	955	41 963	14 829	1 433	1293 399	162 386
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	338	5 986	4 250	152 531	99 917	7 153	830 067	430 334
1542	Nonresidential buildings, n.e.c.	855	12 706	9 648	304 222	214 335	15 037	1 868 686	784 324
16	Heavy construction general contractors:								
1611	Highway and street construction	438	9 710	8 077	224 990	175 879	13 087	891 452	726 261
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	65	2 187	1 859	56 620	46 223	3 108	220 598	172 697
1623	Water, sewer, and utility lines	327	6 659	5 745	169 537	142 825	10 522	454 565	399 883
1629	Heavy construction, n.e.c.	236	8 812	6 983	253 278	194 996	12 249	979 395	763 882
17	Special trade contractors:								
1711	Plumbing, heating, and air conditioning	2 794	23 125	17 733	537 075	416 443	27 910	1 541 560	1 384 021
1721	Painting, paper hanging, and decorating	1 088	5 568	4 947	95 576	81 943	6 924	203 739	197 489
1731	Electrical work	1 569	20 347	16 427	548 840	443 030	28 107	1 342 311	1 297 403
174	Masonry, plastering, and tile setting:								
1741	Masonry, stone setting, and other stonework	875	5 982	5 238	102 158	83 524	6 799	275 753	260 689
1742	Plastering, drywall, and insulation work	610	8 298	6 743	190 552	157 649	10 672	453 961	419 297
1743	Terrazzo, tile, marble, and mosaic work	92	1 533	1 331	22 926	19 951	1 519	65 156	64 050
175	Carpentering and flooring:								
1751	Carpentering	1 506	6 521	5 528	99 867	79 927	7 149	338 596	294 396
1752	Floor laying and other floorwork	296	1 633	1 214	29 944	20 611	1 722	98 428	92 792
1761	Roofing and sheet metal work	1 008	10 535	8 526	221 647	170 129	12 470	641 758	595 627
1771	Concrete work	984	7 980	6 859	133 075	110 673	9 057	456 751	405 072
1781	Water well drilling	99	437	320	7 831	5 794	505	27 039	26 544
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	144	2 794	2 315	68 896	56 913	3 399	173 605	153 930
1793	Glass and glazing work	151	1 422	1 012	33 211	23 620	1 738	111 693	108 030
1794	Excavating and foundation work	787	4 931	4 135	93 650	76 447	5 844	354 890	318 485
1795	Wrecking and demolition work	56	711	612	13 683	11 991	927	28 136	26 649
1796	Installing building equipment, n.e.c.	168	2 979	2 396	86 611	68 572	4 175	206 730	196 511
1799	Special trade contractors, n.e.c.	647	4 210	3 439	72 302	54 443	4 402	223 596	211 472
6552	Subdividers and developers, n.e.c.	159	950	353	16 149	3 851	538	142 628	31 332

†Land receipts for SIC 1531 were \$30,903; for SIC 6552 were \$24,287.

1982—Con.						1977			Relative standard error of estimate (percent) for column—			SIC code
Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Rental payments for machinery, equipment, and structures	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
8 568 407	3 848 570	2 990 592	167 658	193 942	2 507 541	210 454	11 866 811	5 631 498	1	(W)	1	15,16, 17
265 023 87 872	212 926 43 480	170 162 219 494	5 626 1 895	7 675 1 571	90 672 12 657	17 027 2 466	1 023 454 232 293	349 214 51 595	3 4	3 5	6 7	152 1521 1522
91 522	73 863	131 013	1 833	1 932	65 195	5 895	953 320	210 643	5	4	4	1531
251 813 517 785	207 742 280 822	399 733 1 084 362	8 770 10 599	8 155 12 065	91 631 142 162	11 641 14 576	793 279 1 390 344	302 264 374 814	2 1	2 1	3 4	154 1541 1542
368 370	370 964	165 191	26 153	22 984	412 842	13 060	832 127	427 703	1	1	1	16 1611
111 177 274 470 506 554	64 291 129 082 273 435	47 901 54 682 215 512	4 494 14 170 15 442	3 736 9 513 32 121	83 718 196 649 206 468	1 354 8 787 16 063	81 306 485 521 831 002	32 942 259 254 485 163	1 1 1	1 1 1	12 2 (W)	162 1622 1623 1629 17
870 934	540 470	157 538	16 517	18 461	244 357	23 431	1 216 157	658 639	1	1	2	1711
154 460	44 895	6 249	2 333	3 514	30 478	6 245	173 730	133 850	3	3	6	1721
863 287	461 503	44 908	9 083	14 487	170 473	20 052	852 765	560 732	1	(W)	2	1731
195 215 293 461 40 699	(D) 138 976 25 086	15 064 34 664 1 106	2 633 4 476 513	3 683 3 844 297	50 642 49 729 5 432	9 323 9 152 756	350 968 355 151 35 281	218 307 217 119 18 982	3 1 4	2 1 4	4 4 12	174 1741 1742 1743
181 554 52 863	119 469 44 782	44 199 5 636	2 585 1 028	2 649 872	45 271 8 864	9 003 2 488	380 398 112 329	211 110 61 710	4 5	4 4	6 10	175 1751 1752
378 480	226 696	46 131	6 846	9 384	83 345	10 318	437 721	242 416	2	2	4	1761
243 214	168 089	51 678	8 159	7 547	91 197	8 778	362 255	186 090	3	2	5	1771
15 613	11 291	495	385	516	18 015	822	52 227	31 612	12	10	14	1781
121 914 57 410 254 740 26 753 151 629 145 330	38 453 56 947 89 081 4 228 48 892 (D)	19 675 3 663 36 405 1 487 10 219 12 124	2 822 1 346 14 264 1 778 2 133 3 580	2 719 1 094 15 392 2 531 2 025 3 960	29 744 10 147 263 239 19 673 22 281 38 721	2 116 1 434 5 087 539 3 008 5 415	90 867 57 215 233 395 20 306 147 282 207 679	68 010 36 372 175 429 17 260 114 886 140 092	3 5 4 3 2 4	2 4 3 2 2 3	4 12 4 4 3 9	179 1791 1793 1794 1795 1796 1799
26 255	9 661	11 296	187	1 224	23 932	1 619	158 446	45 294	5	6	7	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1982 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1982	1977	1972	1967	Relative standard error of estimate (percent)			
					1982	1977	1972	1967
Number of establishments in business during year	18 318	21 048	19 150	19 301	1	2	2	2
Number of establishments in business at end of year	17 888	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Proprietors and working partners	6 238	11 835	12 006	14 130	3	3	3	3
All employees**	170 822	210 454	204 228	191 955	1	1	1	1
Construction workers:								
March	115 415	144 126	140 545	134 419	1	1	1	1
May	139 635	182 616	169 188	162 007	1	1	1	1
August	148 680	196 274	189 565	187 147	1	1	1	1
November	136 550	178 238	172 028	165 309	1	1	1	1
Average	136 888	175 461	169 612	163 880	1	1	1	1
Other employees:								
March	33 677	33 560	33 468	27 399	1	1	1	2
Construction worker hours (thousands):								
January to March	44 188	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
April to June	53 848	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
July to September	58 799	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
October to December	53 066	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Total hours worked	209 902	(NA)	(NA)	(NA)	(W)	(NA)	(NA)	(NA)
Payroll, all employees	3 763 634	3 338 788	2 450 245	1 648 432	(W)	(W)	1	1
Payroll, construction workers	2 914 586	2 659 319	1 981 109	1 361 356	(W)	(W)	1	1
Payroll, other employees	849 047	679 469	469 136	287 112	1	(W)	1	1
First quarter payroll, all employees	807 417	647 992	(NA)	(NA)	(W)	(W)	(NA)	(NA)
Employer costs for fringe benefits	667 616	677 138	(NA)	(NA)	(W)	(W)	(NA)	(NA)
Legally required expenditures	516 116	347 828	(NA)	(NA)	(W)	(W)	(NA)	(NA)
Voluntary expenditures	151 500	329 309	(NA)	(NA)	1	(W)	(NA)	(NA)
All business receipts	13 462 761	12 337 808	8 565 546	6 058 589	(W)	(W)	1	1
Total construction receipts	13 109 617	11 866 811	8 292 766	5 863 299	(W)	(W)	1	1
Receipts for work subcontracted in from others	3 091 035	3 072 880	1 911 118	1 351 866	1	1	1	3
Land receipts ¹	55 190	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
Other business receipts	297 953	470 997	272 780	195 534	1	3	4	4
Net construction receipts†	10 119 024	9 125 152	6 137 428	4 390 894	(W)	(W)	1	1
Value added††	6 568 407	5 631 498	4 002 605	2 793 683	(W)	(W)	1	1
Selected payments	6 839 163	6 511 678	4 436 009	3 177 990	(W)	1	1	2
Materials, components, and supplies ²	3 580 983	3 587 580	2 280 671	1 705 821	1	1	1	1
Construction work subcontracted to others	2 990 592	2 741 659	2 155 338	1 472 566	1	1	2	3
Selected power, fuels, and lubricants	267 587	182 438	(NA)	(NA)	1	1	(NA)	(NA)
Electricity	35 584	23 518	(NA)	(NA)	1	1	(NA)	(NA)
Natural gas	20 120	15 743	(NA)	(NA)	1	2	(NA)	(NA)
Gasoline and diesel fuel (including gasohol)	195 522	120 245	(NA)	(NA)	1	1	(NA)	(NA)
Other, including lubricating oils and greases	16 359	22 934	(NA)	(NA)	1	2	(NA)	(NA)
Storage capacity for fuels (thousand gallons) ³	4 763	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Rental payments for machinery, equipment, and structures	167 658	142 012	(NA)	(NA)	1	1	(NA)	(NA)
For machinery and equipment	118 194	112 773	82 736	54 187	1	1	2	1
For structures	49 464	29 239	(NA)	(NA)	2	1	(NA)	(NA)
Selected purchased services	210 024	199 444	(NA)	(NA)	1	5	(NA)	(NA)
Communication services	55 974	61 493	(NA)	(NA)	1	15	(NA)	(NA)
Repairs to structures and related facilities	11 545	10 754	(NA)	(NA)	3	5	(NA)	(NA)
Repairs to machinery and equipment	142 505	127 197	(NA)	(NA)	1	2	(NA)	(NA)
Ownership of construction projects:								
Total construction receipts	13 109 617	11 866 811	8 292 766	5 383 476	(W)	(W)	1	1
Government owned	2 916 357	2 315 532	2 032 873	1 483 625	1	1	2	1
Privately owned	10 193 260	9 551 279	6 259 893	3 899 851	1	1	1	1

¹Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

²For 1967 and 1972, includes data for power, fuels, and lubricants.

³Data were collected only for establishments classified as heavy construction contractors.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1982 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1982	1977	1972	1967	Relative standard error of estimate (percent)			
					1982	1977	1972	1967
STRUCTURES, MACHINERY, AND EQUIPMENT								
Beginning-of-year gross book value of depreciable assets -----	2 428 522	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	193 942	305 674	166 333	119 835	1	2	3	2
New -----	144 339	252 793	138 392	102 429	1	2	3	2
Used -----	49 602	52 881	27 941	17 406	3	3	4	5
Retirements and disposition of depreciable assets -----	114 923	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	2 507 541	1 956 091	1 197 549	(NA)	1	1	2	(NA)
Depreciation charges during year -----	286 370	189 669	126 429	(NA)	1	1	2	(NA)
Structures, Additions, and Related Facilities								
Beginning-of-year gross book value of depreciable assets -----	402 885	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	31 309	46 532	34 933	19 915	3	9	5	5
New structures and related facilities -----	23 201	39 314	27 127	15 692	3	7	4	4
Used structures and related facilities -----	8 108	7 218	7 806	4 223	9	12	7	6
Retirements and disposition of depreciable assets -----	24 696	(NA)	(NA)	(NA)	18	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	409 498	394 216	231 814	(NA)	2	2	3	(NA)
Depreciation charges during year -----	35 227	19 524	14 365	(NA)	3	3	4	(NA)
Machinery and Equipment								
Beginning-of-year gross book value of depreciable assets -----	2 025 637	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	162 632	259 142	131 400	99 920	1	2	3	4
New machinery and equipment, including automobiles and trucks -----	121 138	213 479	111 265	86 737	1	2	3	2
New automobiles and trucks, intended primarily for highway use -----	44 024	88 872	(NA)	(NA)	2	3	(NA)	(NA)
Used machinery and equipment, including automobiles and trucks -----	41 494	45 663	20 135	13 183	2	3	4	6
Retirements and disposition of depreciable assets -----	90 227	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	2 098 043	1 561 875	965 735	(NA)	1	1	2	(NA)
Depreciation charges during year -----	251 142	170 145	112 064	(NA)	1	1	2	(NA)

Table 6. Value of Inventories for Establishments With Payroll: 1982 and 1981

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	18 318	1
Total construction receipts	13 109 617	(W)
Establishments with inventories:		
Number	5 492	4
Total construction receipts	5 968 266	1
Inventories¹:		
End of 1982, total	266 512	2
Value for establishments with LIFO reserve	18 006	4
Amount of LIFO reserve	4 292	7
Value for establishments with no LIFO reserve	250 506	3
End of 1981, total	288 096	2
Value for establishments with LIFO reserve	18 904	5
Amount of LIFO reserve	4 164	11
Value for establishments with no LIFO reserve	251 192	2
Establishments with no inventories:		
Number	12 826	1
Total construction receipts	7 141 351	1

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Establishments with an average of—									
	Total	1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1982										
Number of establishments	18 318	11 697	3 245	1 812	1 038	313	163	35	11	3
All employees**	170 822	23 443	21 258	24 311	30 740	21 514	24 699	11 486	8 019	5 352
Payroll, all employees	3 763 634	279 943	352 382	492 295	741 985	556 710	674 541	296 411	213 035	156 331
Construction worker hours (thousands)	209 902	25 238	22 303	26 268	37 125	28 330	34 238	16 094	11 584	8 717
All business receipts	13 462 761	1 344 758	1 336 960	1 722 412	2 556 721	4 244 877	(D)	1 234 752	1 022 280	(D)
Total construction receipts	13 109 617	1 312 824	1 285 865	1 676 128	2 503 978	1 864 980	2 276 254	1 174 295	668 766	346 526
Net construction receipts†	10 119 024	1 095 563	1 082 336	1 314 974	1 955 532	1 479 933	1 643 850	785 422	453 763	307 651
Value added††	6 568 407	643 953	687 824	849 611	1 233 685	991 158	1 042 922	566 967	330 339	221 947
Payments for materials, components, supplies, and fuels	3 848 570	471 754	438 680	504 366	760 390	539 962	638 388	278 912	216 116	(D)
Payments for construction work subcontracted to others	2 990 592	217 261	203 529	361 154	548 446	385 047	632 404	388 873	215 003	38 875
Rental payments for machinery, equipment, and structures	167 658	14 735	16 905	21 729	32 515	31 970	29 859	12 604	7 339	(D)
Capital expenditures, other than land	193 942	24 630	18 474	24 512	35 542	28 805	44 467	13 146	4 364	(D)
End-of-year gross book value of depreciable assets	2 507 541	329 452	316 740	329 608	473 540	382 837	468 286	123 939	83 138	(D)
1977										
All employees**	210 454	26 331	26 418	33 898	40 490	26 496	20 577	17 805	6 660	11 780
Total construction receipts	11 866 811	1 323 030	1 320 845	1 776 363	2 463 693	1 713 525	1 393 438	1 036 868	367 669	471 379
Value added††	5 631 498	547 027	581 184	861 241	1 226 297	791 982	630 303	711 605	(D)	281 859
1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	1	2	3	2	1	(W)	(W)	(W)	(W)	(W)
Net construction receipts†	(W)	2	3	2	(W)	(W)	(W)	(W)	(W)	(W)
Capital expenditures, other than land	1	7	8	6	1	(W)	(W)	(W)	(W)	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

Table 8. Selected Statistics for Establishments With Payroll by Receipts Size Class: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with all business receipts of—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1982											
Number of establishments	18 318	2 158	1 752	3 193	4 837	2 541	1 663	1 236	486	256	193
All employees**	170 822	2 418	2 911	6 888	16 701	15 938	18 818	25 351	20 499	18 847	42 449
Payroll, all employees	3 763 634	7 604	17 961	62 566	210 031	258 944	366 739	587 165	520 395	506 769	1 225 457
Construction worker hours (thousands)	209 902	1 986	2 629	6 717	17 423	16 973	20 511	29 663	25 808	25 146	63 040
All business receipts	13 462 761	24 318	64 374	233 450	762 732	901 844	1 172 837	1 908 375	1 698 465	1 722 494	4 973 869
Total construction receipts	13 109 617	23 860	63 343	230 006	746 659	875 203	1 141 265	1 858 509	1 666 266	1 674 939	4 829 565
Net construction receiptst	10 119 024	21 050	57 320	213 310	680 357	777 339	967 017	1 559 638	1 334 098	1 240 162	3 268 730
Value added††	6 568 407	13 098	33 479	128 388	409 649	478 441	612 922	1 014 597	857 717	807 919	2 212 193
Payments for materials, components, supplies, and fuels	3 848 570	8 182	24 578	87 564	283 462	320 259	379 747	585 735	500 672	474 125	1 184 244
Payments for construction work subcontracted to others	2 990 592	2 809	6 022	16 695	66 302	97 864	174 247	298 871	332 168	434 777	1 560 835
Rental payments for machinery, equipment, and structures	167 658	510	874	2 441	8 876	11 767	15 452	28 861	19 978	23 582	55 314
Capital expenditures, other than land	193 942	390	1 024	4 399	15 361	16 448	15 865	27 697	22 258	26 841	63 655
End-of-year gross book value of depreciable assets	2 507 541	9 178	23 371	65 192	199 768	209 641	255 918	369 465	323 746	333 740	717 519
1977											
All employees**	210 454	(S)	4 415	9 018	22 197	25 063	25 676	34 467	25 677	160 940	(NA)
Total construction receipts	11 866 811	(S)	91 737	260 197	851 558	1 089 889	1 314 610	2 019 157	1 679 830	14 533 857	(NA)
Value added††	5 631 498	(S)	52 656	145 549	434 920	547 903	645 126	1 000 974	780 819	12 010 262	(NA)
1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	4	6	4	3	3	2	1	(W)	(W)	(W)
Net construction receiptst	(W)	5	5	3	3	3	3	1	(W)	(W)	(W)
Capital expenditures, other than land	1	23	17	12	7	9	6	4	(W)	(W)	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

†Data for this size class includes establishments with receipts of \$10,000,000 or more, which were not tabulated separately in 1977.

Table 9. Construction Receipts for Establishments With Payroll by Type of Construction: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Construction receipts			Relative standard error of estimate (percent) for column—		
	Total	New construction ¹	Maintenance and repair	A	B	C
	A	B	C			
1982						
Total construction receipts	13 109 617	9 711 187	3 398 429	(W)	(W)	1
Building construction	8 801 729	6 592 084	2 209 645	1	(W)	1
Single-family houses	1 729 849	1 215 350	514 498	2	2	2
Single-family houses, detached	1 474 130	1 004 886	469 243	2	2	2
Single-family houses, attached	255 719	210 463	45 255	3	3	5
Apartment buildings with two or more apartments	717 130	585 063	132 066	1	1	3
Other residential buildings	180 877	137 028	43 849	3	4	3
Office and bank buildings	1 840 336	1 377 551	462 785	1	1	1
Office buildings	1 628 699	1 225 675	403 024	1	1	1
Bank buildings and other financial institutions	211 637	151 876	59 760	1	2	2
Farm buildings	94 871	74 059	20 812	8	10	7
Industrial buildings and warehouses	2 103 706	1 589 285	514 421	1	1	1
Industrial buildings	1 814 798	1 359 587	455 211	1	1	2
Warehouses	288 907	229 697	59 210	2	2	3
Stores, restaurants, public garages, and automobile service stations	790 975	575 092	215 882	2	2	3
Religious buildings	123 239	77 867	45 371	2	2	3
Educational buildings	344 686	230 875	113 811	2	2	3
Hospitals and institutional buildings	694 811	578 715	116 096	1	1	2
Amusement, social, and recreational buildings	109 716	99 540	10 176	3	3	8
Other nonresidential buildings	71 533	55 651	19 878	6	9	9
Nonbuilding construction	3 503 102	2 476 446	1 026 656	(W)	(W)	1
Highways, streets, and related facilities	968 111	542 852	423 259	1	1	2
Bridges, tunnels, and elevated highways	289 750	244 482	45 268	1	1	4
Bridges and elevated highways	187 140	147 772	39 367	2	1	5
Bridges	170 946	137 988	32 958	2	1	6
Elevated highways	16 193	9 783	6 409	2	1	2
Tunnels	102 610	96 709	5 900	2	1	8
Power and communication transmission lines, towers, and related facilities	204 452	170 384	34 068	2	2	4
Sewers, water mains, and related facilities	337 566	264 095	73 470	2	2	4
Sewers, sewer lines, and related facilities	233 448	192 201	41 246	3	3	4
Water mains and related facilities	104 118	71 894	32 224	4	4	6
Pipeline, other than sewer or water lines	107 363	78 423	28 939	1	1	1
Sewage treatment and water treatment plants	285 324	255 928	29 395	1	1	3
Sewage treatment plants	206 910	189 333	17 576	1	1	4
Water treatment plants	78 413	66 594	11 819	2	2	3
Mass transit construction	114 204	61 923	52 281	(W)	(W)	1
Heavy industrial facilities	855 073	630 383	224 690	(W)	(W)	1
Blast furnaces, petroleum refineries, and chemical complexes	304 028	195 839	108 188	(W)	(W)	(W)
Power plants	551 045	434 543	116 502	(W)	(W)	2
Power plants, nuclear	360 879	309 842	51 037	(W)	(W)	(W)
Power plants, except nuclear	190 165	124 700	65 465	1	(W)	3
Other nonbuilding construction	343 259	227 976	115 286	4	5	5
Construction work, n.s.k.	804 785	642 658	162 128	2	2	3
1977						
Total construction receipts	11 866 811	9 603 234	2 263 578	(W)	(W)	1
Building construction	8 563 366	6 943 779	1 619 587	1	1	1
Single-family houses	3 210 853	2 713 399	497 454	1	1	3
Apartment buildings with two or more apartments	678 932	567 267	111 665	2	3	3
Other residential buildings	137 870	106 733	31 137	1	1	3
Office and bank buildings	770 730	588 322	182 408	1	1	2
Farm buildings	155 307	127 650	27 657	4	4	16
Industrial buildings and warehouses	1 785 652	1 366 208	419 444	1	1	1
Stores, restaurants, public garages, and automobile service stations	581 551	471 305	110 246	2	2	3
Religious buildings	112 061	79 013	33 048	3	3	3
Educational buildings	501 281	395 850	105 431	1	1	2
Hospitals and institutional buildings	499 960	420 409	79 551	(W)	(W)	2
Other nonresidential buildings	129 170	107 625	21 545	4	4	8
Nonbuilding construction	2 846 218	2 269 943	576 275	(W)	(W)	1
Highways, streets, and related facilities	824 482	537 247	287 235	1	1	1
Bridges, tunnels, and elevated highways	115 272	95 551	19 721	2	3	5
Power and communication transmission lines, towers, and related facilities	116 464	78 904	37 560	1	2	2
Sewers, water mains, and related facilities	437 394	393 284	44 110	1	1	4
Sewage treatment and water treatment plants	192 413	182 247	10 166	1	1	2
Heavy industrial facilities	278 068	228 196	49 872	(W)	(W)	(W)
Power plants	452 708	413 784	38 924	(W)	(W)	4
Other nonbuilding construction	429 417	340 730	88 687	1	1	3
Construction work, n.s.k.	457 361	389 187	68 174	3	3	3

¹Includes data for work done as additions and alterations.

Table 10. Quarterly Construction Worker Hours and Employment for Establishments With

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction industries and subdividers and developers -----	18 318	136 888	209 902	115 415	44 188	139 635	53 848
15,16, 17	Construction industries:							
15	General building contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses	2 458	8 177	10 679	7 100	2 370	8 212	2 774
1522	Other residential buildings	245	2 056	2 764	1 766	573	2 055	707
1531	Operative builders	316	955	1 433	749	295	1 019	368
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses	338	4 250	7 153	3 775	1 629	4 442	1 850
1542	Nonresidential buildings, n.e.c.	855	9 648	15 037	8 361	3 179	10 071	3 976
16	Heavy construction general contractors:							
1611	Highway and street construction	438	8 077	13 087	2 722	1 001	8 705	3 443
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction	65	1 859	3 108	1 166	512	2 083	888
1623	Water, sewer, and utility lines	327	5 745	10 522	4 721	2 018	5 894	2 722
1629	Heavy construction, n.e.c.	236	6 983	12 249	7 354	3 321	6 853	3 023
17	Special trade contractors:							
1711	Plumbing, heating, and air conditioning	2 794	17 733	27 910	16 516	6 549	17 378	6 870
1721	Painting, paper hanging, and decorating	1 088	4 947	6 924	3 964	1 479	5 038	1 799
1731	Electrical work	1 569	16 427	28 107	16 061	6 873	16 623	7 186
174	Masonry, plastering, and tile setting:							
1741	Masonry, stone setting, and other stonework	875	5 238	6 799	3 855	1 177	5 386	1 707
1742	Plastering, drywall, and insulation work	610	6 743	10 672	6 455	2 532	6 767	2 711
1743	Terrazzo, tile, marble, and mosaic work	92	1 331	1 519	1 375	394	1 298	376
175	Carpentering and flooring:							
1751	Carpentering	1 506	5 528	7 149	5 054	1 661	5 391	1 806
1752	Floor laying and other floorwork	296	1 214	1 722	1 171	417	1 178	437
1761	Roofing and sheet metal work	1 008	8 526	12 470	6 637	2 422	8 748	3 223
1771	Concrete work	984	6 859	9 057	4 341	1 317	7 522	2 457
1781	Water well drilling	99	320	505	291	118	323	127
179	Miscellaneous special trade contractors:							
1791	Structural steel erection	144	2 315	3 399	2 123	769	2 348	868
1793	Glass and glazing work	151	1 012	1 738	917	389	1 008	430
1794	Excavating and foundation work	787	4 135	5 844	3 031	1 021	4 256	1 534
1795	Wrecking and demolition work	56	612	927	612	208	564	211
1796	Installing building equipment, n.e.c.	168	2 396	4 175	2 294	980	2 348	1 023
1799	Special trade contractors, n.e.c.	647	3 439	4 402	2 714	859	3 764	1 176
6552	Subdividers and developers, n.e.c. -----	159	353	538	294	115	354	144

¹Sum of construction workers during pay periods including 12th of March, May, August, and November.

Payroll by Industry: 1982

July to September		October to December		Relative standard error of estimate (percent) for column—										SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
148 680	58 799	136 550	53 066	1	(W)	1	1	1	1	1	1	1	1	15,18, 17
														15
8 718 2 275	2 950 739	7 615 2 041	2 583 743	3 5	3 6	3 5	4 6	3 8	4 11	3 5	4 6	3 5	4 6	152 1521 1522
1 053	410	888	359	8	8	7	10	8	9	8	10	9	11	1531
4 467 10 820	1 944 4 194	4 122 8 964	1 728 3 687	2 1	2 1	3 1	3 1	3 2	4 2	3 2	2 2	3 1	3 2	154 1541 1542
														16
11 659	5 108	9 026	3 533	1	1	4	3	1	2	1	1	1	1	1611
														162
2 241 6 556 6 680	953 3 187 3 143	1 897 5 675 6 937	754 2 593 2 761	1 1 1	2 1 1	1 1 1	2 1 1	1 1 1	2 1 1	2 1 2	2 1 1	2 1 1	4 2 1	1622 1623 1629
														17
17 820	7 120	18 462	7 368	1	1	1	1	1	1	1	1	2	3	1711
5 463	1 979	4 599	1 665	3	3	4	4	3	4	4	4	4	5	1721
16 755	7 138	15 686	6 908	1	1	1	1	1	1	1	1	1	1	1731
														174
5 972 6 838 1 356	2 091 2 694 385	5 382 6 787 1 268	1 822 2 733 363	3 1 4	3 1 4	4 1 3	5 2 5	4 1 4	4 1 6	4 3 3	4 2 5	5 2 4	6 2 6	1741 1742 1743
5 699 1 234	1 922 454	5 177 1 125	1 759 412	4 6	4 7	5 6	5 9	4 6	5 9	4 6	5 8	4 5	5 9	175 1751 1752
9 374	3 566	9 052	3 257	2	2	2	2	2	2	2	2	2	2	1761
7 984	2 857	7 246	2 425	3	3	3	4	4	4	4	4	3	4	1771
347	139	299	119	13	13	13	17	13	17	13	17	14	18	1781
2 526 1 018 4 560 633 2 306 3 991	933 449 1 748 257 1 004 1 295	2 204 1 035 4 325 608 2 573 3 131	828 469 1 540 249 1 168 1 071	3 5 4 3 2 4	2 5 4 2 3 4	2 5 5 3 2 3	3 7 6 4 2 5	3 5 4 3 2 4	3 7 5 4 3 5	2 5 4 3 2 4	2 7 5 3 3 5	3 5 5 4 2 4	3 7 5 3 3 5	179 1791 1793 1794 1795 1796 1799
326	124	419	154	8	9	8	13	8	12	6	11	9	13	6552

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker (thousands)	Total construction receipts per employee (\$1,000)	Average per dollar of total construction receipts				
						Payroll, all employees	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Rental payments for machinery, equipment, and structures
15,16, 17	Construction industries and subdividers and developers -----	9.3	22.0	1.5	95.8	.287	.294	.228	.015	.013
15	Construction industries:									
152	General building contractors and operative builders:									
1521	General contractors, residential buildings:									
1522	Single-family houses -----	4.0	13.5	1.3	78.1	.210	.333	.266	.012	.009
1522	Other residential buildings -----	11.4	18.9	1.3	168.6	.152	.125	.633	.005	.005
1531	Operative builders -----	6.6	20.1	1.5	307.2	.143	.252	.447	.007	.006
154	General contractors, nonresidential buildings:									
1541	Industrial buildings and warehouses -----	17.7	25.5	1.7	195.3	.184	.250	.482	.010	.008
1542	Nonresidential buildings, n.e.c. -----	14.9	23.9	1.6	193.7	.163	.150	.580	.006	.006
16	Heavy construction general contractors:									
1611	Highway and street construction -----	22.2	23.2	1.6	110.4	.252	.416	.185	.026	.029
162	Heavy construction, except highway:									
1622	Bridge, tunnel, and elevated highway construction -----	33.6	25.9	1.7	118.7	.257	.291	.217	.017	.020
1623	Water, sewer, and utility lines -----	20.4	25.5	1.8	79.1	.373	.284	.120	.021	.031
1629	Heavy construction, n.e.c. -----	37.3	28.7	1.8	140.3	.259	.279	.220	.033	.016
17	Special trade contractors:									
1711	Plumbing, heating, and air conditioning -----	8.3	23.2	1.6	86.9	.348	.351	.102	.012	.011
1721	Painting, paper hanging, and decorating -----	5.1	17.2	1.4	41.2	.469	.220	.031	.017	.011
1731	Electrical work -----	13.0	27.0	1.7	81.7	.409	.344	.033	.011	.007
174	Masonry, plastering, and tile setting:									
1741	Masonry, stone setting, and other stonework -----	6.8	17.1	1.3	52.6	.370	(D)	.055	.013	.010
1742	Plastering, drywall, and insulation work -----	13.6	23.0	1.6	67.3	.420	.306	.076	.008	.010
1743	Terrazzo, tile, marble, and mosaic work -----	16.7	15.0	1.1	49.0	.352	.385	.017	.005	.008
175	Carpentering and flooring:									
1751	Carpentering -----	4.3	15.3	1.3	61.3	.295	.353	.131	.008	.008
1752	Floor laying and other floorwork -----	5.5	18.3	1.4	81.1	.304	.455	.057	.009	.010
1761	Roofing and sheet metal work -----	10.5	21.0	1.5	75.3	.345	.353	.072	.015	.011
1771	Concrete work -----	8.1	16.7	1.3	66.6	.291	.368	.113	.017	.018
1781	Water well drilling -----	4.4	17.9	1.6	84.5	.290	.418	.018	.019	.014
179	Miscellaneous special trade contractors:									
1791	Structural steel erection -----	19.4	24.7	1.5	75.0	.397	.221	.113	.016	.016
1793	Glass and glazing work -----	9.4	23.4	1.7	110.4	.297	.510	.033	.010	.012
1794	Excavating and foundation work -----	6.3	19.0	1.4	85.8	.264	.251	.103	.043	.040
1795	Wrecking and demolition work -----	12.7	19.2	1.5	46.0	.486	.150	.053	.090	.063
1796	Installing building equipment, n.e.c. -----	17.7	29.1	1.7	86.3	.419	.227	.049	.010	.010
1799	Special trade contractors, n.e.c. -----	6.5	17.2	1.3	65.0	.323	.330	.054	.018	.016
6552	Subdividers and developers, n.e.c. -----	6.0	17.0	1.5	120.8	.379	.227	.265	.029	.004

Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
											B	E
	CHICAGO-GARY-KENOSHA, ILL.-IND.-WIS., SCSSA											
	Construction industries and subdividers and developers..	11 368	127 397	3 011 816	10 111 586	7 687 248	5 125 257	2 778 356	2 424 338	121 997	1	(W)
15,16, 17	Construction industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	1 319	5 292	84 241	427 012	305 435	171 904	139 110	121 577	4 250	4	5
1522	Other residential buildings	153	2 052	39 715	267 523	82 171	65 606	(D)	185 352	(D)	5	8
1531	Operative builders	268	1 597	33 747	249 518	132 576	79 787	55 473	116 942	(D)	5	4
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	206	4 881	125 139	622 367	320 609	191 888	156 447	301 758	(D)	2	2
1542	Nonresidential buildings, n.e.c.	465	9 190	243 510	1 548 011	592 155	413 214	188 794	955 856	7 821	2	1
16	Heavy construction general contractors:											
1611	Highway and street construction	230	4 238	109 494	431 084	347 484	184 866	(D)	83 600	7 722	2	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	33	1 245	36 183	147 829	113 501	80 604	(D)	34 328	986	3	2
1623	Water, sewer, and utility lines	197	4 913	128 857	334 596	288 230	189 525	(D)	46 367	(D)	2	2
1629	Heavy construction, n.e.c.	94	7 791	261 276	832 720	664 507	485 153	187 012	168 213	17 959	(W)	(W)
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning	1 740	17 585	425 837	1 202 969	1 072 075	680 051	408 437	130 895	12 301	2	1
1721	Painting, paper hanging, and decorating	756	4 481	85 271	176 363	170 333	133 105	38 667	6 031	2 523	4	3
1731	Electrical work	1 008	17 421	481 817	1 155 911	1 112 917	745 005	387 618	42 995	11 205	1	1
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework	537	4 530	82 767	223 233	(D)	160 851	(D)	(D)	2 826	4	-
1742	Plastering, drywall, and insulation work	393	6 592	153 589	361 243	332 900	233 508	(D)	28 343	2 800	2	2
1743	Terrazzo, tile, marble, and mosaic work	73	1 416	21 351	60 529	59 499	38 030	23 009	1 030	298	4	5
175	Carpentering and flooring:											
1751	Carpentering	899	4 785	81 498	260 505	224 881	142 213	88 152	35 625	2 126	4	4
1752	Floor laying and other floorwork....	237	1 459	27 617	86 214	81 256	47 376	37 844	4 958	827	6	4
1761	Roofing and sheet metal work	707	7 716	172 881	483 978	452 812	295 203	(D)	31 166	6 965	3	2
1771	Concrete work	708	6 141	106 553	367 523	327 253	197 775	(D)	40 270	5 560	4	3
1781	Water well drilling	48	292	5 509	19 173	18 774	11 020	7 883	399	517	15	12
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	96	1 878	44 895	112 546	97 952	74 263	(D)	14 594	(D)	3	2
1793	Glass and glazing work	116	1 215	29 153	99 863	96 262	50 552	(D)	3 601	(D)	6	5
1794	Excavating and foundation work....	324	3 071	66 796	215 379	190 053	150 847	50 720	25 327	9 608	3	3
1795	Wrecking and demolition work	44	666	13 027	26 281	24 920	25 277	3 953	1 341	2 479	4	2
1796	Installing building equipment, n.e.c.	104	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1799	Special trade contractors, n.e.c.	499	3 587	61 798	185 473	175 124	124 120	57 758	10 349	3 310	4	4
6552	Subdividers and developers, n.e.c.	120	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
	CHICAGO SMSA											
	Construction industries and subdividers and developers..	10 479	115 062	2 691 761	9 349 802	7 034 828	4 631 550	2 603 437	2 314 974	113 002	1	(W)
15,16, 17	Construction industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	1 188	4 875	78 333	389 119	276 634	158 415	123 384	112 485	3 971	4	4
1522	Other residential buildings	147	2 003	38 688	261 845	78 073	62 057	19 934	183 772	713	4	7
1531	Operative builders	235	1 470	31 894	237 746	122 975	73 091	52 521	114 771	1 634	5	4
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	199	3 783	102 353	566 659	282 623	166 669	143 498	284 036	5 389	3	2
1542	Nonresidential buildings, n.e.c.	424	8 621	228 742	1 490 435	565 672	394 402	180 766	924 763	7 318	2	1

Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	CHICAGO SMSA—Con.											
15,18,17	Construction Industries—Con.											
16	Heavy construction general contractors:											
1611	Highway and street construction	205	4 000	103 688	401 201	322 086	167 870	169 098	79 115	7 017	2	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	30	1 227	35 796	145 875	112 044	80 239	33 518	33 831	930	3	2
1623	Water, sewer, and utility lines	181	4 788	125 648	325 042	279 758	183 940	97 692	45 285	4 863	2	2
1629	Heavy construction, n.e.c.	77	4 032	123 685	595 862	442 409	285 217	164 433	153 454	16 553	1	(W)
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning	1 618	16 116	389 620	1 103 509	988 158	624 217	377 738	115 352	10 680	2	1
1721	Painting, paper hanging, and decorating	706	4 189	79 822	163 927	158 469	123 834	35 883	5 458	2 390	4	3
1731	Electrical work	946	15 918	441 486	1 066 538	1 025 927	682 719	359 506	40 611	9 725	1	1
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework	493	4 358	79 844	214 498	201 716	155 801	(D)	12 782	2 501	4	3
1742	Plastering, drywall, and insulation work	359	6 257	148 429	348 066	320 100	224 871	(D)	27 966	2 640	2	2
1743	Terrazzo, tile, marble, and mosaic work	72	1 412	21 287	60 335	59 306	37 939	22 907	1 030	298	4	5
175	Carpentering and flooring:											
1751	Carpentering	860	4 633	79 653	254 194	219 984	139 599	85 679	34 211	2 102	4	4
1752	Floor laying and other floorwork	206	1 385	26 736	84 212	79 259	46 070	37 153	4 953	827	6	4
1761	Roofing and sheet metal work	650	7 035	158 805	453 491	423 510	272 666	158 492	29 982	6 642	3	2
1771	Concrete work	655	5 913	103 338	356 648	316 851	190 887	128 262	39 797	5 520	4	3
1781	Water well drilling	40	264	5 337	17 598	17 220	10 183	7 167	378	328	12	13
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	88	1 717	41 165	103 697	89 396	67 784	27 358	14 301	2 138	3	2
1793	Glass and glazing work	110	1 147	27 658	96 495	92 934	48 979	47 411	3 561	966	6	5
1794	Excavating and foundation work	280	2 655	59 911	199 808	176 266	139 594	47 264	23 543	9 590	4	3
1795	Wrecking and demolition work	44	666	13 027	26 261	24 920	25 277	3 953	1 341	2 479	4	2
1796	Installing building equipment, n.e.c.	101	2 492	73 446	171 946	163 748	127 468	38 241	8 198	1 841	2	2
1799	Special trade contractors, n.e.c.	452	3 265	58 335	175 638	166 126	117 768	54 756	9 512	2 800	4	4
6552	Subdividers and developers, n.e.c.	119	847	15 042	39 160	28 669	23 997	8 871	10 492	1 152	5	6
	ST. LOUIS, MO.-ILL., SMSA											
	Construction Industries and subdividers and developers.	4 405	54 792	1 113 819	4 395 277	3 059 967	1 918 275	1 225 599	1 335 310	77 151	1	1
15,16,17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	658	3 046	38 120	173 323	124 632	76 993	50 608	48 691	2 254	5	6
1522	Other residential buildings	67	455	8 255	66 521	29 967	12 602	17 567	36 554	689	7	3
1531	Operative builders	125	1 445	29 927	171 092	95 606	62 065	37 271	75 486	2 585	7	7
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	68	4 779	121 140	680 765	310 851	210 021	104 175	369 914	7 155	1	1
1542	Nonresidential buildings, n.e.c.	230	6 211	121 648	876 377	314 867	189 149	130 045	561 510	7 279	2	1
16	Heavy construction general contractors:											
1611	Highway and street construction	112	2 252	50 513	214 975	171 028	93 653	81 276	43 947	8 772	4	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	9	253	5 843	20 627	13 898	2 829	11 152	6 729	127	(W)	(W)
1623	Water, sewer, and utility lines	53	1 435	30 144	86 885	79 234	50 689	28 728	7 651	1 728	3	3
1629	Heavy construction, n.e.c.	48	2 312	41 844	228 318	178 276	105 654	(D)	50 042	(D)	2	1

Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added‡	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	ST. LOUIS, MO.-ILL., SMSA—Con.											
15,16,17	Construction Industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air conditioning -----	603	6 504	147 337	430 420	379 221	235 966	147 217	51 199	5 484	3	2
1721	Painting, paper hanging, and decorating -----	333	2 436	41 380	87 869	84 845	67 263	17 866	3 024	1 917	6	4
1731	Electrical work -----	298	6 553	171 847	480 044	472 014	278 068	222 690	8 030	5 503	2	1
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework -----	221	1 832	30 810	72 785	70 902	50 616	22 357	1 883	1 418	11	4
1742	Plastering, drywall, and insulation work -----	134	2 719	63 026	173 052	155 877	106 294	57 382	17 175	3 186	3	2
1743	Terrazzo, tile, marble, and mosaic work -----	25	188	3 354	8 570	8 450	5 053	3 701	120	42	24	17
175	Carpentering and flooring:											
1751	Carpentering -----	290	1 842	30 485	76 692	67 239	45 395	23 202	9 453	1 573	8	5
1752	Floor laying and other floorwork -----	71	571	9 013	28 339	28 129	15 568	14 855	210	113	14	6
1761	Roofing and sheet metal work -----	242	2 519	42 763	128 530	117 259	69 970	48 564	11 271	1 946	7	5
1771	Concrete work -----	238	2 195	36 002	113 826	105 526	64 587	42 268	8 301	3 456	8	5
1781	Water well drilling -----	20	96	2 059	8 520	7 879	4 840	3 074	641	(D)	21	22
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	43	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-
1793	Glass and glazing work -----	26	474	9 436	25 245	(D)	13 019	12 718	(D)	261	18	-
1794	Excavating and foundation work -----	225	1 557	24 015	78 720	74 152	57 150	17 397	4 568	3 075	11	9
1795	Wrecking and demolition work -----	7	81	1 011	5 493	(D)	3 186	907	(D)	(W)	-	-
1796	Installing building equipment, n.e.c. -----	36	611	14 361	41 105	38 468	26 907	11 789	2 637	380	7	5
1799	Special trade contractors, n.e.c. -----	174	1 136	15 386	46 269	40 933	25 313	18 273	5 336	1 074	8	8
8552	Subdividers and developers, n.e.c. ----	53	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-



Indiana

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SUMMARY OF FINDINGS

During 1982, 34,232 establishments in Indiana operated primarily as general contractors or operative builders, special trade contractors, or subdividers and developers. These establishments had business receipts of \$5.7 billion.

Tables 1 and 2 of this report provide summary statistics for all establishments, establishments with paid employees, and for those with no payroll.

The 24,584 establishments in this State with no payroll accounted for about 11 percent of all business receipts for all construction establishments in Indiana. On the other hand, 9,648 establishments classified as "employers" accounted for 89 percent of all business receipts.

Tables 3 through 12 in this report provide considerably more detailed information for employers. In 1982, all business receipts for these establishments amounted to \$5.0 billion, of which \$4.9 billion were receipts for construction work. These establishments paid \$931 million for construction work subcontracted to others, leaving net construction receipts of about \$4.0 billion. Value added for these establishments amounted to \$2.5 billion. (See Introduction and appendixes for explanation of terms.)

Construction establishments with payroll located in Indiana paid \$1.5 billion for materials, components, and supplies purchased for use in construction work for others; purchased and subsequently provided to subcontractors for their use; purchased and then resold to others; and purchased and used in construction work for own account. However, materials furnished to contractors by owners of projects are not included. Payments of \$101 million were also made for selected power, fuels, and

lubricants purchased during the year from other companies or received from other establishments of the parent company.

Average employment during 1982 for construction establishments with payroll in Indiana was 77.8 thousand employees. Hours worked by construction workers during the first quarter of 1982 were 21.0 million hours, while hours worked during the third quarter were 28.1 million hours.

Total payroll for 1982 was \$1.5 billion. Payments of \$258 million for employer costs for fringe benefits (not included in payroll) represent such expenditures during the year as employers' Social Security contributions, unemployment compensation, pension plans, and welfare plans.

The 1982 estimates for establishments with payroll are based on a probability sample of about 172,000 construction establishments in the United States. The estimates for Indiana are based on a sample of about 3,800 of these establishments. Statistics for the nonemployers were based on administrative records of the Federal Government.

The statistics reported by each establishment cover all of its activities, not just construction. Therefore, aggregates of such data for a State reflect not only the primary construction activities of the establishments in the State, but also their secondary construction activities, and any nonconstruction activities.

All data shown are based on current dollars for the years specified and have not been adjusted for price changes or for inflation between 1977 and 1982.

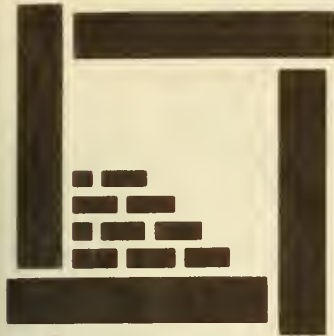
Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
		Number	Proprietors and working partners	All employees**	All business receipts	Number	Proprietors and working partners	All business receipts	Number	Proprietors and working partners	All employees**	All business receipts		
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1982													
	Construction Industries and subdividers and developers.....	34 232	28 119	77 804	5 655 048	24 584	24 424	617 722	9 648	3 695	77 804	5 037 326	1	1
15,16, 17	Construction Industries ¹	33 831	27 846	77 563	5 612 993	24 245	24 160	592 197	9 586	3 686	77 563	5 020 796	1	1
15	General building contractors and operative builders	6 851	4 972	21 380	1 963 548	4 104	3 965	180 290	2 747	1 007	21 380	1 783 258	2	1
16	Heavy construction, general contractors ..	1 797	1 333	12 618	932 317	1 218	1 223	37 408	579	110	12 618	894 909	1	1
17	Special trade contractors	25 183	21 541	43 565	2 717 128	18 923	18 972	374 499	6 260	2 569	43 565	2 342 629	1	1
1711	Plumbing, heating, and air conditioning.....	2 959	2 038	11 663	793 128	1 625	1 610	44 975	1 334	428	11 663	748 153	2	1
1731	Electrical work	2 148	1 617	7 596	496 364	1 395	1 378	31 392	753	239	7 596	464 972	2	1
6552	Subdividers and developers, n.e.c. ²	392	269	234	42 047	339	264	25 525	53	5	234	16 522	14	9
	1977													
	Construction Industries and subdividers and developers.....	30 537	26 542	99 225	5 352 390	19 286	19 674	447 777	11 251	6 868	99 225	4 904 613	1	1
15,16, 17	Construction Industries ¹	30 128	26 151	98 622	5 272 004	18 972	19 300	414 170	11 156	8 851	98 622	4 857 834	1	1
15	General building contractors and operative builders	7 938	6 413	29 599	2 283 081	3 914	3 942	206 629	4 024	2 471	29 599	2 076 452	3	2
16	Heavy construction, general contractors ..	1 491	1 115	19 787	969 625	867	888	18 591	624	227	19 787	951 034	1	1
17	Special trade contractors	20 699	18 624	49 236	2 019 298	14 191	14 470	188 950	6 508	4 154	49 236	1 830 348	1	1
1711	Plumbing, heating, and air conditioning.....	2 774	2 116	11 828	579 518	1 443	1 459	31 491	1 331	657	11 828	548 027	2	2
1731	Electrical work	1 900	1 521	9 234	390 135	1 114	1 120	15 755	786	401	9 234	374 380	3	2
6552	Subdividers and developers, n.e.c. ²	415	391	(S)	80 391	314	374	33 607	101	17	(S)	(S)	-	-

¹For establishments without payroll, may also include data for construction establishments not classified to two-digit industry detail.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.



FINAL REPORT
INDUSTRY SERIES

1982 Census of Construction Industries

CC82-I-3
Changed July 1985

CHANGE SHEET

OPERATIVE BUILDERS

The data for "Net Construction Receipts," originally published in tables 1, 2, 5, 6, and 8 of the Industry 1531, Operative Builders, publication CC82-I-3, have been revised. The revised data are shown in this change sheet.



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Table 1. General Statistics for Establishments With Payroll by State: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Location of establishment	1982							
	Number of establishments	Employees**		Payroll		Construction worker hours (thousands)	Total construction receipts	Net construction receipts†
		All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H	
United States -----	14 053	107 635	53 212	1 873 775	709 719	83 600	15 607 430	8 841 057
Alabama -----	237	1 445	827	18 349	8 649	1 425	126 446	73 536
Alaska -----	105	458	347	9 205	6 965	608	73 341	45 956
Arizona -----	267	3 347	1 284	65 721	19 341	1 993	638 553	308 965
Arkansas -----	98	514	305	7 001	2 845	557	52 587	36 672
California -----	1 396	14 504	5 133	336 111	86 916	6 855	2 586 798	1 224 747
Colorado -----	413	3 391	1 700	72 277	26 784	2 567	789 050	460 258
Connecticut -----	257	1 440	965	22 118	12 707	1 720	124 256	78 437
Delaware -----	39	385	297	7 068	5 243	465	39 080	21 966
District of Columbia -----	28	480	256	10 524	3 931	373	50 716	20 407
Florida -----	1 320	14 106	5 873	223 740	74 807	9 690	2 004 320	1 082 843
Georgia -----	511	3 336	1 876	43 102	19 476	2 782	376 455	235 260
Hawaii -----	19	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Idaho -----	42	219	94	2 430	*927	*147	17 009	11 024
Illinois -----	316	2 086	955	41 963	14 829	1 433	293 399	162 386
Indiana -----	256	1 246	740	19 324	10 043	1 233	131 638	84 510
Iowa -----	95	456	236	7 663	3 035	314	51 483	34 702
Kansas -----	190	868	536	11 189	5 398	860	104 176	57 066
Kentucky -----	155	776	412	10 384	4 719	569	100 006	55 944
Louisiana -----	264	1 692	971	25 833	11 775	1 428	156 685	106 722
Maine -----	47	287	132	3 397	1 622	228	22 192	10 718
Maryland -----	265	3 479	1 785	73 495	28 101	3 008	702 205	356 933
Massachusetts -----	286	1 327	765	18 831	9 588	1 189	131 543	78 895
Michigan -----	245	785	390	13 863	5 151	533	95 527	56 860
Minnesota -----	263	1 923	1 150	35 180	16 511	1 701	254 390	138 052
Mississippi -----	77	426	264	4 748	2 601	426	35 470	25 609
Missouri -----	232	1 910	1 186	34 410	17 200	1 544	207 486	116 727
Montana -----	50	210	151	2 618	1 524	250	16 164	11 090
Nebraska -----	116	489	287	7 818	3 610	467	61 254	34 011
Nevada -----	52	529	281	12 108	5 065	502	100 940	35 492
New Hampshire -----	84	424	270	7 547	4 301	523	46 344	25 682
New Jersey -----	511	2 729	1 317	47 818	17 536	2 024	405 729	235 894
New Mexico -----	183	1 106	683	14 165	7 125	937	88 020	55 153
New York -----	537	3 582	1 645	58 104	21 199	2 829	412 211	227 143
North Carolina -----	438	2 904	1 506	38 305	16 544	2 623	325 634	215 028
North Dakota -----	24	207	112	2 628	1 426	181	21 157	18 200
Ohio -----	385	2 091	1 233	34 974	18 367	1 877	294 077	163 421
Oklahoma -----	303	1 551	907	24 436	11 156	1 523	184 604	119 155
Oregon -----	211	909	478	15 921	6 589	691	106 293	73 732
Pennsylvania -----	334	2 820	1 693	38 614	20 516	2 798	251 332	158 937
Rhode Island -----	51	495	346	5 740	2 804	545	28 158	15 514
South Carolina -----	166	1 318	678	19 687	6 868	1 087	111 523	62 632
South Dakota -----	12	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Tennessee -----	310	1 954	1 248	25 328	13 539	1 918	159 723	103 639
Texas -----	1 560	14 649	6 875	260 676	91 557	11 461	2 678 070	1 697 827
Utah -----	125	819	532	11 857	6 000	662	77 620	40 549
Vermont -----	51	207	147	2 410	1 656	278	18 617	13 914
Virginia -----	474	3 806	2 089	59 565	26 068	3 404	552 744	308 078
Washington -----	390	2 353	1 385	40 301	15 450	2 052	309 814	207 084
West Virginia -----	96	372	270	4 025	3 046	441	20 473	15 871
Wisconsin -----	102	542	270	8 782	3 514	414	61 989	39 857
Wyoming -----	54	305	190	5 516	3 021	228	47 171	30 686

1982—Con.						1977			Relative standard error of estimate (percent) for column—			Location of establishment
Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Rental payments for machinery, equipment, and structures	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
5 492 462	3 776 102	6 766 373	95 850	252 825	3 204 704	173 819	19 812 272	5 229 031	1	1	1	U.S.
29 989	44 606	52 910	539	1 635	19 019	3 663	333 477	120 853	10	10	18	Ala.
12 488	34 224	27 385	393	1 522	19 770	398	40 021	8 163	10	12	16	Alaska
249 110	76 565	329 588	5 200	6 010	124 473	4 653	555 782	153 251	4	2	4	Ariz.
24 140	14 269	15 915	184	767	19 018	1 642	136 757	38 275	10	10	9	Ark.
1 077 662	289 864	1 362 051	21 085	50 846	551 498	23 148	4 344 629	1 243 813	1	1	(W)	Calif.
270 597	194 144	328 792	5 054	6 473	92 496	4 151	635 166	166 200	6	2	5	Colo.
39 033	40 974	45 819	505	1 158	49 262	2 005	283 399	95 840	7	9	9	Conn.
13 332	8 956	17 114	207	557	26 661	396	37 981	11 509	15	17	21	Del.
12 079	(D)	30 309	(D)	1 113	27 639	1 574	74 002	24 049	14	18	3	D.C.
736 875	422 285	921 477	11 229	48 933	435 730	15 837	1 304 402	330 528	2	2	1	Fia.
111 915	130 691	141 195	1 176	3 040	59 850	3 603	329 460	63 131	6	5	7	Ga.
(D)	(D)	(S)	(S)	(S)	(S)	1 134	136 045	62 310	—	—	—	Hawaii
5 989	5 119	5 985	41	68	2 829	852	69 843	14 577	35	34	40	Idaho
(D)	(D)	131 013	1 833	1 932	65 195	5 895	953 320	210 643	5	5	5	Ill.
32 954	52 534	47 128	650	7 675	37 235	3 775	304 532	(D)	8	9	2	Ind.
19 359	16 277	16 781	205	910	16 342	1 746	128 214	32 004	14	15	7	Iowa
21 650	36 168	47 110	372	1 497	35 960	1 540	135 327	32 408	13	14	12	Kans.
36 977	23 219	44 062	260	525	20 444	1 826	164 477	43 876	11	10	11	Ky.
51 806	58 807	49 963	766	1 966	30 606	3 069	238 139	67 512	8	7	8	La.
5 946	6 176	*11 474	29	317	6 341	530	38 271	10 242	20	23	14	Maine
244 620	125 817	345 272	7 543	16 757	127 655	5 090	609 329	144 983	3	2	1	Md.
47 389	35 784	52 648	323	2 703	61 894	1 824	155 844	53 840	9	10	18	Mass.
32 072	26 493	38 667	558	1 164	22 314	2 566	355 894	73 936	10	9	14	Mich.
74 049	65 535	116 338	1 746	2 428	45 910	2 869	304 526	84 718	7	5	11	Minn.
11 560	14 298	9 861	192	391	11 547	1 059	99 588	19 937	15	22	38	Miss.
71 314	50 543	90 759	897	3 702	45 548	3 541	269 895	68 421	6	7	11	Mo.
9 225	3 466	5 074	81	*660	3 458	613	67 104	21 266	25	22	46	Mont.
13 095	21 328	27 243	356	1 058	17 283	1 203	128 495	31 711	14	17	12	Nebr.
25 131	(D)	65 448	1 406	559	8 836	896	131 532	26 347	8	6	4	Nev.
11 646	16 098	20 662	242	396	10 257	804	90 371	22 101	13	12	11	N.H.
141 690	100 509	169 835	827	11 530	93 307	3 937	454 729	152 592	5	4	4	N.J.
34 625	22 691	32 866	533	1 223	12 296	2 029	120 949	33 070	11	10	23	N. Mex.
125 547	110 064	185 068	1 568	4 070	130 605	4 320	493 254	125 077	5	5	5	N.Y.
68 685	152 990	110 606	941	6 495	48 509	4 260	365 533	107 853	5	5	18	N.C.
12 152	6 477	2 957	168	450	3 150	1 317	78 223	33 486	25	15	33	N. Dak.
81 788	87 976	130 656	1 379	2 213	83 938	6 656	786 959	198 463	7	6	7	Ohio
55 762	64 864	65 449	716	2 958	40 393	1 690	142 681	32 295	10	8	12	Okla.
54 926	25 686	32 561	953	1 611	45 894	2 608	245 399	62 643	8	9	24	Oreg.
89 176	74 144	92 395	1 012	2 700	68 899	5 251	492 977	141 934	7	5	11	Pa.
*6 777	9 216	12 644	47	71	7 353	533	38 308	(D)	11	12	10	R.I.
44 818	29 958	48 891	1 143	3 632	82 194	1 844	140 515	31 362	14	11	4	S.C.
(D)	(S)	(S)	(D)	(S)	(S)	535	28 813	7 442	—	—	—	S. Dak.
55 619	54 875	56 083	825	1 765	44 250	3 534	284 733	78 156	8	8	14	Tenn.
906 951	817 720	980 243	14 159	26 162	266 393	15 195	1 860 704	430 446	3	1	4	Tex.
25 837	22 251	37 071	895	9 684	30 530	1 889	180 335	30 984	10	14	8	Utah
6 951	8 615	4 703	68	132	6 048	262	12 845	3 482	29	30	29	Vt.
158 010	156 005	244 666	3 837	2 532	119 933	7 471	764 607	220 006	4	4	7	Va.
144 659	70 560	102 730	2 324	3 346	37 321	4 595	560 734	151 560	5	4	11	Wash.
8 248	8 758	4 602	81	160	5 848	1 604	77 471	17 601	18	17	25	W. Va.
23 416	17 442	22 132	331	4 249	33 544	1 976	186 091	46 405	12	13	2	Wis.
17 999	13 032	16 485	228	613	10 235	415	40 593	11 999	15	15	28	Wyo.

Table 2. Detailed Statistics for Establishments With Payroll: 1982 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1982	1977	1972	1967	Relative standard error of estimate (percent)			
					1982	1977	1972	1967
Number of establishments in business during year	14 053	23 477	(S)	13 237	1	2	-	3
Number of establishments in business at end of year	13 624	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Proprietors and working partners	2 481	10 397	(S)	5 700	4	3	-	4
All employees**	107 635	173 819	(S)	72 305	1	2	-	2
Construction workers:								
March	50 316	95 642	(S)	42 392	1	1	-	2
May	52 952	112 707	(S)	47 981	1	1	-	3
August	53 911	119 205	(S)	54 312	1	1	-	2
November	51 237	110 876	(S)	48 416	1	1	-	2
Average	53 212	109 702	(S)	48 945	1	1	-	2
Other employees:								
March	51 721	59 416	(S)	22 545	1	4	-	2
Construction worker hours (thousands):								
January to March	19 913	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
April to June	21 204	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
July to September	21 778	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
October to December	20 703	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Total hours worked	83 600	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Payroll, all employees	1 873 775	2 026 118	(S)	465 235	1	2	-	2
Payroll, construction workers	709 719	1 053 389	(S)	275 517	1	1	-	2
Payroll, other employees	1 164 056	972 729	(S)	190 146	1	2	-	2
First quarter payroll, all employees	437 994	413 934	(NA)	(NA)	1	2	(NA)	(NA)
Employer costs for fringe benefits	332 603	321 075	(NA)	(NA)	1	2	(NA)	(NA)
Legally required expenditures	238 386	206 937	(NA)	(NA)	1	2	(NA)	(NA)
Voluntary expenditures	94 217	114 138	(NA)	(NA)	1	2	(NA)	(NA)
All business receipts	18 084 627	22 917 960	(S)	4 769 190	1	1	-	2
Total construction receipts	15 607 430	19 812 272	(S)	4 174 325	1	1	-	2
Receipts for work subcontracted in from others	90 971	130 570	(S)	32 579	6	6	-	13
Land receipts ¹	2 049 688	2 632 242	(S)	480 555	1	1	-	3
Other business receipts	427 508	473 446	(S)	116 391	1	3	-	3
Net construction receipts†	8 841 057	10 627 381	(S)	2 219 617	1	2	-	2
Value added††	5 492 462	5 229 031	(S)	1 210 881	1	3	-	3
Selected payments	10 542 476	15 056 687	(S)	3 078 160	1	1	-	2
Materials, components, and supplies ²	3 613 878	5 639 757	(S)	1 124 030	1	1	-	2
Construction work subcontracted to others	6 766 373	9 184 892	(S)	1 954 859	1	2	-	3
Selected power, fuels, and lubricants	162 224	232 038	(NA)	(NA)	1	2	(NA)	(NA)
Electricity	70 476	65 487	(NA)	(NA)	1	3	(NA)	(NA)
Natural gas	15 177	23 100	(NA)	(NA)	4	3	(NA)	(NA)
Gasoline and diesel fuel (including gasohol)	67 162	98 623	(NA)	(NA)	1	2	(NA)	(NA)
Other, including lubricating oils and greases	9 407	44 834	(NA)	(NA)	3	3	(NA)	(NA)
Storage capacity for fuels ³ (thousand gallons)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Rental payments for machinery, equipment, and structures	95 850	64 054	(NA)	(NA)	1	3	(NA)	(NA)
For machinery and equipment	34 702	37 615	(S)	8 943	2	3	-	7
For structures	61 148	26 439	(NA)	(NA)	1	4	(NA)	(NA)
Selected purchased services	126 221	161 959	(NA)	(NA)	1	2	(NA)	(NA)
Communication services	58 195	68 985	(NA)	(NA)	1	2	(NA)	(NA)
Repairs to structures and related facilities	27 337	23 079	(NA)	(NA)	2	5	(NA)	(NA)
Repairs to machinery and equipment	40 689	69 896	(NA)	(NA)	2	3	(NA)	(NA)
Ownership of construction projects:								
Total construction receipts	15 607 430	19 812 272	(S)	4 174 325	1	1	-	2
Government owned	205 309	114 825	(S)	(NA)	31	8	-	(NA)
Privately owned	15 402 121	19 697 448	(S)	(NA)	1	1	-	(NA)

¹Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

²For 1967 and 1972, includes data for power, fuels, and lubricants.

³Data were collected only for establishments classified as heavy construction contractors.

Table 4. Value of Inventories for Establishments With Payroll: 1982 and 1981

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	14 053	1
Total construction receipts	15 607 430	1
Establishments with inventories:		
Number	5 349	3
Total construction receipts	7 989 909	1
Inventories ¹ :		
End of 1982, total	1 990 552	2
Value for establishments with LIFO reserve	88 243	10
Amount of LIFO reserve	19 433	23
Value for establishments with no LIFO reserve	1 902 309	2
End of 1981, total	1 174 195	2
Value for establishments with LIFO reserve	46 050	12
Amount of LIFO reserve	12 188	16
Value for establishments with no LIFO reserve	1 128 145	2
Establishments with no inventories:		
Number	8 704	1
Total construction receipts	7 617 521	1

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 5. Selected Statistics for Establishments With Payroll by Employment Size Class: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								1,000 employees or more
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	
1982										
Number of establishments	14 053	9 064	2 709	1 284	737	162	74	18	2	2
All employees**	107 635	18 067	17 527	17 194	21 720	11 293	11 678	10 155	(D)	(D)
Payroll, all employees	1 873 775	254 657	271 681	294 986	414 896	239 170	218 033	180 351	(D)	(D)
Construction worker hours (thousands)	83 600	13 360	15 299	14 919	17 358	8 776	7 155	6 730	(D)	(D)
All business receipts	18 084 627	2 542 680	2 338 284	2 561 128	4 148 300	2 677 208	3 817 026	(D)	(D)	(D)
Total construction receipts	15 607 430	2 209 530	2 036 346	2 209 770	3 577 172	2 306 869	1 925 975	1 341 767	(D)	(D)
Net construction receipts†	8 841 057	1 262 206	1 248 458	1 240 111	1 873 701	1 276 256	1 099 938	840 386	(D)	(D)
Value added††	5 492 462	576 895	647 533	700 619	1 127 895	988 444	843 023	608 051	(D)	(D)
Payments for materials, components, supplies, and fuels	3 776 102	713 457	639 905	577 395	836 545	393 663	615 135	(D)	(D)	(D)
Payments for construction work subcontracted to others	6 766 373	947 324	787 888	969 658	1 703 471	1 030 613	826 037	501 381	(D)	(D)
Rental payments for machinery, equipment, and structures	95 850	8 449	11 330	13 003	21 751	15 714	13 790	11 812	(D)	(D)
Capital expenditures, other than land	252 825	24 648	26 564	25 806	68 795	46 905	27 044	33 061	(D)	(D)
End-of-year gross book value of depreciable assets	3 204 704	646 661	501 866	417 801	641 529	325 279	298 145	373 421	(D)	(D)
1977										
All employees**	173 819	31 915	30 490	29 024	26 771	16 781	14 330	14 301	1 656	8 551
Total construction receipts	19 812 272	4 054 992	3 067 290	3 010 370	3 508 515	2 259 061	1 609 179	1 621 445	312 023	369 399
Value added††	5 229 031	926 598	772 882	778 754	945 225	664 971	530 513	*278 906	101 818	229 365
1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	1	2	3	3	3	(W)	(W)	(W)	—	—
Net construction receipts†	1	3	3	2	1	(W)	(W)	(W)	—	—
Capital expenditures, other than land	1	7	10	4	1	(W)	(W)	(W)	—	—

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

Table 6. Selected Statistics for Establishments With Payroll by Receipts Size Class: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with all business receipts of—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1982											
Number of establishments -----	14 053	868	913	1 707	2 891	2 542	2 321	1 655	550	294	310
All employees** -----	107 635	998	1 237	3 247	7 638	11 239	14 428	17 404	11 793	9 338	30 311
Payroll, all employees -----	1 873 775	2 579	6 558	25 616	81 357	137 613	219 236	308 742	224 071	202 270	665 733
Construction worker hours (thousands) -----	83 600	494	903	2 448	5 691	9 629	12 671	15 004	10 421	7 202	19 134
All business receipts -----	18 084 627	11 966	32 039	126 336	482 343	907 313	1 626 933	2 534 476	1 950 463	2 010 317	8 402 439
Total construction receipts -----	15 607 430	10 440	27 996	109 970	420 611	787 480	1 420 460	2 209 627	1 699 370	1 754 603	7 166 872
Net construction receipts† -----	8 841 057	5 627	17 671	70 400	266 719	498 337	851 562	1 321 334	983 475	915 363	3 910 567
Value added†† -----	5 492 462	*2 429	8 569	31 702	120 168	238 559	404 379	648 783	578 828	534 612	2 924 430
Payments for materials, components, supplies, and fuels -----	3 776 102	3 404	9 733	41 072	153 885	275 647	472 155	712 680	442 787	413 484	1 251 252
Payments for construction work subcontracted to others -----	6 766 373	4 812	10 325	39 569	153 892	289 143	568 897	888 292	715 895	839 240	3 256 305
Rental payments for machinery, equipment, and structures -----	95 850	*31	146	515	2 141	4 402	7 322	9 574	10 003	11 816	49 898
Capital expenditures, other than land -----	252 825	117	331	1 320	13 157	12 754	17 561	31 383	19 988	36 430	119 780
End-of-year gross book value of depreciable assets -----	3 204 704	8 544	17 584	60 700	189 408	264 018	381 934	643 485	263 403	284 475	1 091 150
1977											
All employees** -----	173 819	1 611	2 156	5 794	16 567	20 418	24 569	30 237	15 577	156 890	(NA)
Total construction receipts -----	19 812 272	14 159	43 633	183 606	842 339	1 471 190	2 408 157	3 758 783	2 081 382	19 009 026	(NA)
Value added†† -----	5 229 031	2 398	10 216	50 582	227 307	380 867	571 259	978 572	511 370	12 496 462	(NA)
1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees** -----	1	5	6	5	4	4	4	3	1	(W)	(W)
Net construction receipts† -----	1	25	6	4	4	3	4	3	1	(W)	(W)
Capital expenditures, other than land -----	1	38	25	19	6	11	8	8	(W)	(W)	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

†Data for this size class include establishments with receipts of \$10,000,000 or more, which were not tabulated separately in 1977.

Table 8. Selected Statistics for Establishments With Payroll by Specialization in Types of Construction: 1982

[Thousand dollars. Detail may not add to total due to rounding. This table presents selected statistics for establishments according to degree of specialization in major types of construction work. If number of establishments or total receipts for a given type of specialization are relatively insignificant, data may not be shown. In addition, data are not shown in this table where distribution of construction receipts by type of construction was not provided in table 7. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Number of establishments	All employees**	Payroll, all employees	Total construction receipts		Net construction receipts†	Value added††	Payments for construction work sub-contracted to others	Relative standard error of estimate (percent) for column—		
				For all types	For specialized type				B	D	H
A	B	C	D	E	F	G	H	B	D	H	
All establishments -----	14 053	107 635	1 873 775	15 607 430	13 208 695	8 841 057	5 492 462	6 766 373	1	1	1
Establishments not specializing by type -----	517	8 369	147 522	947 570	(NA)	590 962	393 865	356 608	3	2	2
Establishments specializing 51 percent or more -----	13 535	99 266	1 726 253	14 659 860	13 208 695	8 250 095	5 098 597	6 409 765	1	1	1
SINGLE-FAMILY HOUSES, DETACHED											
All establishments specializing in type -----	10 723	66 168	1 161 105	10 345 004	9 470 337	5 990 593	3 638 962	4 354 410	1	1	1
Establishments with—											
100 percent specialization -----	9 103	45 534	759 901	6 443 777	6 443 777	3 955 444	2 336 261	2 488 333	2	1	1
90 to 99 percent specialization -----	532	5 477	106 439	1 157 939	1 086 304	574 445	290 328	583 494	4	2	2
80 to 89 percent specialization -----	411	4 959	93 968	932 247	771 842	538 337	363 471	393 910	3	2	2
70 to 79 percent specialization -----	329	3 788	67 200	528 189	388 841	309 607	198 056	218 581	5	3	4
60 to 69 percent specialization -----	257	4 950	104 004	951 867	596 899	443 483	352 075	508 383	3	1	1
51 to 59 percent specialization -----	91	1 459	29 591	330 984	182 671	169 276	98 768	161 708	3	2	1
SINGLE-FAMILY HOUSES, ATTACHED											
All establishments specializing in type -----	1 848	20 253	356 528	2 748 434	2 347 841	1 436 272	881 281	1 312 162	2	1	1
Establishments with—											
100 percent specialization -----	1 310	9 309	155 939	1 133 536	1 133 536	601 281	351 002	532 255	3	2	3
90 to 99 percent specialization -----	126	3 297	58 059	405 591	388 303	256 746	166 820	148 845	3	3	4
80 to 89 percent specialization -----	102	2 053	39 089	215 392	182 467	(D)	(D)	(D)	7	5	—
70 to 79 percent specialization -----	137	2 424	41 805	350 519	259 583	217 812	160 212	132 707	4	3	2
60 to 69 percent specialization -----	115	1 915	35 775	372 849	235 337	201 725	128 151	171 124	5	3	4
51 to 59 percent specialization -----	57	1 254	25 860	270 546	148 612	121 609	67 494	148 937	7	1	1
APARTMENT BUILDINGS WITH TWO OR MORE APARTMENTS											
All establishments specializing in type -----	560	8 671	130 408	1 000 124	877 513	531 910	353 371	468 214	3	2	2
Establishments with—											
100 percent specialization -----	393	4 081	55 320	416 035	416 035	219 175	152 346	196 860	5	3	3
90 to 99 percent specialization -----	29	403	9 337	107 351	99 879	59 265	42 214	48 086	6	3	4
80 to 89 percent specialization -----	42	1 537	27 069	209 269	175 449	100 935	52 430	108 334	2	2	(W)
70 to 79 percent specialization -----	38	1 803	28 440	188 393	139 640	103 395	76 157	84 998	2	2	4
60 to 69 percent specialization -----	37	429	4 496	30 973	19 663	21 991	12 683	8 982	22	14	22
51 to 59 percent specialization -----	21	418	5 746	48 103	26 844	27 149	17 540	20 954	13	11	—

Table 2. Summary Statistics for Establishments With and Without Payroll by Receipts Size
Class: 1982 and 1977

(Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes)

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	All business receipts	Number	Proprietors and working partners	All business receipts	Number	Proprietors and working partners	All employees**	All business receipts		
	A	B	C	D	E	F	G	H	I	J	K	J	K
1982													
The State -----	34 232	28 119	77 804	5 655 048	24 584	24 424	617 722	9 648	3 695	77 804	5 037 326	1	1
\$10,000,000 or more -----	60	2	16 666	1 486 703	-	-	-	60	(NA)	16 666	1 486 703	(W)	(W)
\$5,000,000 to \$9,999,999 -----	85	2	6 220	(D)	1	-	(D)	84	(NA)	6 220	576 772	(W)	(W)
\$2,500,000 to \$4,999,999 -----	203	3	8 041	1 297 509	7	-	31 146	196	-	8 041	689 591	(W)	(W)
\$1,000,000 to \$2,499,999 -----	524	26	11 755	813 270	19	14	28 398	505	12	11 755	784 872	1	3
\$500,000 to \$999,999 -----	744	105	8 884	519 208	43	35	29 119	701	70	8 884	490 089	4	4
\$250,000 to \$499,999 -----	1 355	398	8 704	473 305	169	146	58 377	1 186	252	8 704	414 928	5	5
\$100,000 to \$249,999 -----	3 309	1 758	9 772	518 362	799	779	118 338	2 510	979	9 772	400 024	3	4
\$50,000 to \$99,999 -----	3 583	2 733	4 277	251 579	1 687	1 714	115 257	1 896	1 019	4 277	136 322	5	4
\$25,000 to \$49,999 -----	4 111	3 641	1 832	145 047	2 967	2 980	103 044	1 144	661	1 832	42 003	5	6
Less than \$25,000 -----	20 256	19 450	1 652	150 063	18 892	18 756	134 043	1 364	694	1 652	16 020	6	6
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	5 567	5 517	86 034	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	4 402	4 379	29 857	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	4 963	4 940	14 192	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000 -----	(NA)	(NA)	(NA)	(NA)	3 960	3 920	3 960	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1977													
The State -----	30 537	26 542	99 225	5 352 390	19 286	19 674	447 777	11 251	6 868	99 225	4 904 613	1	1
\$10,000,000 or more -----	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000,000 to \$9,999,999 ² -----	130	5	26 689	(D)	1	-	(D)	129	5	26 689	1 728 690	2	(W)
\$2,500,000 to \$4,999,999 -----	163	12	9 651	2 328 945	3	4	35 716	160	8	9 651	564 539	2	2
\$1,000,000 to \$2,499,999 -----	596	104	14 937	913 471	19	22	24 523	577	82	14 937	888 948	1	2
\$500,000 to \$999,999 -----	911	300	11 914	642 733	68	71	46 958	843	229	11 914	595 775	3	4
\$250,000 to \$499,999 -----	1 489	724	11 647	512 670	121	120	41 506	1 368	604	11 647	471 164	3	4
\$100,000 to \$249,999 -----	2 990	2 007	12 334	474 306	415	425	62 309	2 575	1 582	12 334	411 997	4	4
\$50,000 to \$99,999 -----	3 189	2 727	6 570	219 811	854	937	57 787	2 335	1 790	6 570	162 024	6	5
\$25,000 to \$49,999 -----	3 564	3 399	3 354	127 104	1 952	2 084	67 158	1 612	1 315	3 354	59 946	8	7
Less than \$25,000 -----	17 507	17 265	(S)	133 350	15 853	16 011	111 820	(S)	(S)	(S)	(S)	-	-
\$10,000 to \$24,999 -----	5 686	5 558	1 461	88 612	4 605	4 691	70 058	1 081	867	1 461	18 554	10	10
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	3 973	4 006	26 901	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	4 458	4 485	12 714	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500 -----	(NA)	(NA)	(NA)	(NA)	2 817	2 829	2 147	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²Data for this size class includes establishments with receipts of \$10,000,000 or more, which were not tabulated separately.

Table 3. General Statistics for Establishments With Payroll by Industry: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1982							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Total construction receipts	Net construction receipts†
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
	Construction industries and subdividers and developers -----	9 648	77 804	63 456	1 467 103	1 159 938	98 978	4 884 399	3 953 085
15,16, 17	Construction industries:								
15	General building contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	1 665	6 233	5 112	67 852	53 326	6 920	325 939	263 516
1522	Other residential buildings -----	134	1 114	846	19 979	12 996	1 532	107 702	61 936
1531	Operative builders -----	256	1 246	740	19 324	10 043	1 233	1131 638	84 510
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	175	6 098	5 045	122 218	93 654	6 980	453 907	294 710
1542	Nonresidential buildings, n.e.c. -----	517	6 689	5 125	131 043	94 564	8 396	708 621	355 352
16	Heavy construction general contractors:								
1611	Highway and street construction -----	191	3 512	2 769	71 544	52 999	4 576	294 168	254 430
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	39	806	677	15 799	13 379	1 126	55 218	45 853
1623	Water, sewer, and utility lines -----	157	2 958	2 497	58 412	42 720	4 093	175 035	158 342
1629	Heavy construction, n.e.c. -----	192	5 342	4 802	171 616	154 077	9 044	347 947	326 350
17	Special trade contractors:								
1711	Plumbing, heating, and air conditioning -----	1 334	11 663	8 943	235 881	180 736	14 289	727 302	628 872
1721	Painting, paper hanging, and decorating -----	517	2 590	2 341	36 326	32 228	3 732	89 721	86 464
1731	Electrical work -----	753	7 596	6 099	167 835	138 574	10 079	454 062	440 772
174	Masonry, plastering, and tile setting:								
1741	Masonry, stone setting, and other stonework -----	489	2 118	1 968	26 733	23 840	2 472	67 826	64 021
1742	Plastering, drywall, and insulation work -----	310	2 873	2 451	53 256	44 186	3 804	129 748	123 753
1743	Terrazzo, tile, marble, and mosaic work -----	42	259	205	4 321	3 396	311	12 265	11 781
175	Carpentering and flooring:								
1751	Carpentering -----	581	2 107	1 847	20 538	17 255	2 439	68 329	57 217
1752	Floor laying and other floorwork -----	162	536	443	8 055	5 735	590	29 588	28 246
1761	Roofing and sheet metal work -----	485	4 404	3 665	80 684	62 537	5 454	227 348	219 239
1771	Concrete work -----	391	2 077	1 795	28 336	23 873	2 616	90 937	86 166
1781	Water well drilling -----	89	318	264	5 117	3 827	421	18 766	18 278
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	65	964	807	22 516	18 076	1 156	50 449	47 037
1793	Glass and glazing work -----	58	481	345	9 059	6 343	426	27 837	27 423
1794	Excavating and foundation work -----	518	2 884	2 443	44 212	38 089	3 806	155 921	144 474
1795	Wrecking and demolition work -----	14	87	70	909	755	89	3 081	2 899
1796	Installing building equipment, n.e.c. -----	79	853	686	20 108	15 867	1 142	47 190	45 397
1799	Special trade contractors, n.e.c. -----	373	1 755	1 399	22 198	16 355	2 134	74 931	69 912
6552	Subdividers and developers, n.e.c. -----	53	234	63	3 226	500	104	18 917	6 129

†Land receipts for SIC 1531 were \$15,994; for SIC 6552 were \$6,237.

1982—Con.						1977			Relative standard error of estimate (percent) for column—			SIC code
Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Rental payments for machinery, equipment, and structures	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
2 470 522	1 813 256	931 313	55 992	84 032	1 054 845	99 225	4 688 990	2 157 956	1	1	2	15,16, 17
												15
134 411	134 619	62 422	3 024	4 226	41 885	10 855	560 204	186 522	5	4	9	152
36 910	26 167	45 766	475	650	6 808	1 224	115 258	27 421	7	6	5	1521
												1522
32 954	52 534	47 128	650	7 675	37 235	3 775	304 532	(D)	8	8	1	1531
153 901	146 387	159 197	2 601	3 833	83 468	5 692	348 778	129 501	2	2	6	154
226 352	155 243	353 269	4 708	6 597	77 678	8 053	623 461	173 501	2	2	5	1541
												1542
												16
133 845	135 668	39 738	4 259	6 338	142 075	5 206	295 144	148 609	2	1	1	1611
26 564	20 081	9 365	1 437	2 181	18 946	1 037	50 066	24 385	5	8	16	162
106 651	56 164	16 692	4 363	8 488	88 803	3 724	159 447	98 094	3	2	3	1622
260 650	67 892	21 597	5 743	4 646	72 933	9 820	427 005	268 844	2	1	3	1623
												1629
												17
381 742	267 981	98 429	8 903	8 921	97 341	11 828	532 152	281 171	2	2	3	1711
67 378	19 663	3 256	1 036	1 149	14 559	2 668	53 675	40 891	7	6	12	1721
279 690	171 992	13 290	4 210	6 958	80 784	9 234	355 643	230 352	2	1	3	1731
44 846	20 126	3 805	1 074	1 700	15 320	3 435	76 507	49 738	7	6	13	174
83 792	43 511	5 995	1 238	1 943	14 359	3 025	105 451	64 843	4	3	6	1741
7 295	4 594	484	147	258	1 279	282	10 124	6 501	18	17	37	1742
												1743
35 151	22 940	11 111	760	819	9 089	1 963	50 931	28 707	7	7	14	175
16 305	13 434	1 342	129	377	4 339	698	22 036	12 487	13	7	15	1751
												1752
137 655	88 690	8 108	1 761	2 979	32 385	4 533	158 669	89 913	4	3	6	1761
47 688	42 266	4 771	925	1 701	31 257	2 383	70 718	39 060	7	6	14	1771
11 092	7 272	488	41	472	10 092	517	23 620	13 803	16	14	25	1781
37 503	11 750	3 411	1 483	842	10 767	1 075	39 169	29 366	4	2	2	179
15 243	13 384	414	349	256	3 471	518	19 211	10 529	8	4	3	1791
107 702	43 763	11 446	4 337	7 303	124 191	3 316	120 740	86 263	6	5	6	1793
2 784	336	182	130	130	1 264	129	3 627	3 180	(W)	(W)	(W)	1794
36 242	11 106	1 793	598	959	9 026	751	38 050	28 051	6	3	14	1795
40 755	33 603	5 019	1 498	2 190	16 890	2 881	91 732	52 496	6	7	10	1796
												1799
5 413	2 083	2 788	102	434	8 592	(S)	(S)	(S)	14	9	20	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1982 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1982	1977	1972	1967	Relative standard error of estimate (percent)			
					1982	1977	1972	1967
Number of establishments in business during year	9 648	11 251	10 078	8 877	2	2	3	3
Number of establishments in business at end of year	9 350	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Proprietors and working partners	3 695	6 868	6 921	6 988	4	4	4	4
All employees**	77 804	99 225	90 886	78 744	1	1	2	1
Construction workers:								
March	54 059	70 877	62 934	57 380	1	1	2	1
May	63 951	86 086	75 437	68 348	1	1	2	1
August	69 551	92 898	86 259	78 507	1	1	2	2
November	62 479	85 152	76 487	67 949	1	1	2	2
Average	63 456	83 818	76 435	68 654	1	1	2	1
Other employees:								
March	14 287	14 861	13 867	10 065	1	4	2	2
Construction worker hours (thousands):								
January to March	21 011	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
April to June	25 098	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
July to September	28 101	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
October to December	24 767	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Total hours worked	98 978	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Payroll, all employees	1 467 103	1 327 493	914 401	572 820	1	1	1	1
Payroll, construction workers	1 159 938	1 083 223	748 152	481 439	1	1	1	1
Payroll, other employees	307 165	244 270	166 249	91 422	1	3	2	2
First quarter payroll, all employees	314 388	262 280	(NA)	(NA)	1	1	(NA)	(NA)
Employer costs for fringe benefits	257 994	232 246	(NA)	(NA)	1	1	(NA)	(NA)
Legally required expenditures	189 426	124 440	(NA)	(NA)	1	1	(NA)	(NA)
Voluntary expenditures	68 568	107 806	(NA)	(NA)	1	(W)	(NA)	(NA)
All business receipts	5 037 326	4 904 613	3 220 265	2 219 655	1	1	2	1
Total construction receipts	4 884 399	4 688 990	3 116 471	2 155 782	1	1	2	1
Receipts for work subcontracted in from others	957 344	892 496	483 418	323 211	1	1	2	3
Land receipts ¹	22 231	(NA)	(NA)	(NA)	6	(NA)	(NA)	(NA)
Other business receipts	130 695	215 623	103 794	63 924	2	2	7	4
Net construction receipts†	3 953 085	3 670 425	2 428 527	1 675 362	1	1	2	2
Value added††	2 470 522	2 157 956	1 477 544	1 024 760	1	1	1	2
Selected payments	2 544 571	2 658 742	1 700 430	1 180 078	1	1	2	3
Materials, components, and supplies ²	1 512 045	1 559 778	1 012 486	700 086	1	1	2	2
Construction work subcontracted to others	931 313	1 018 566	687 944	480 452	1	1	2	4
Selected power, fuels, and lubricants	101 211	80 399	(NA)	(NA)	2	1	(NA)	(NA)
Electricity	14 880	10 075	(NA)	(NA)	3	3	(NA)	(NA)
Natural gas	7 560	5 688	(NA)	(NA)	3	5	(NA)	(NA)
Gasoline and diesel fuel (including gasohol)	72 224	55 305	(NA)	(NA)	2	1	(NA)	(NA)
Other, including lubricating oils and greases	6 546	9 333	(NA)	(NA)	3	3	(NA)	(NA)
Storage capacity for fuels (thousand gallons) ³	1 713	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Rental payments for machinery, equipment, and structures	55 992	54 706	(NA)	(NA)	2	1	(NA)	(NA)
For machinery and equipment	39 770	45 930	26 822	21 921	2	1	2	2
For structures	16 222	8 776	(NA)	(NA)	3	2	(NA)	(NA)
Selected purchased services	84 896	84 338	(NA)	(NA)	2	5	(NA)	(NA)
Communication services	24 240	21 459	(NA)	(NA)	2	6	(NA)	(NA)
Repairs to structures and related facilities	6 636	5 361	(NA)	(NA)	3	4	(NA)	(NA)
Repairs to machinery and equipment	54 019	57 517	(NA)	(NA)	2	7	(NA)	(NA)
Ownership of construction projects:								
Total construction receipts	4 884 399	4 688 990	3 116 471	2 155 782	1	1	2	1
Government owned	1 009 722	822 754	997 271	667 570	2	1	2	2
Privately owned	3 874 676	3 866 236	2 119 200	1 488 212	1	1	2	1

¹Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

²For 1967 and 1972, includes data for power, fuels, and lubricants.

³Data were collected only for establishments classified as heavy construction contractors.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1982 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1982	1977	1972	1967	Relative standard error of estimate (percent)			
					1982	1977	1972	1967
STRUCTURES, MACHINERY, AND EQUIPMENT								
Beginning-of-year gross book value of depreciable assets -----	1 010 689	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	84 032	134 788	88 190	56 366	2	2	5	3
New -----	61 869	111 591	69 485	46 835	2	3	5	3
Used -----	22 163	23 197	18 705	9 531	4	4	11	7
Retirements and disposition of depreciable assets -----	39 876	(NA)	(NA)	(NA)	14	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	1 054 845	846 775	539 445	(NA)	2	1	3	(NA)
Depreciation charges during year -----	114 660	82 702	56 270	(NA)	2	1	2	(NA)
Structures, Additions, and Related Facilities								
Beginning-of-year gross book value of depreciable assets -----	196 477	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	17 952	24 287	16 570	9 125	4	11	16	12
New structures and related facilities -----	14 807	21 527	12 522	7 011	3	10	16	9
Used structures and related facilities -----	3 144	2 760	4 048	2 114	10	13	16	16
Retirements and disposition of depreciable assets -----	4 028	(NA)	(NA)	(NA)	11	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	210 401	192 225	115 035	(NA)	2	2	7	(NA)
Depreciation charges during year -----	16 776	9 996	6 510	(NA)	3	6	5	(NA)
Machinery and Equipment								
Beginning-of-year gross book value of depreciable assets -----	814 212	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	66 080	110 502	71 620	47 241	2	3	9	5
New machinery and equipment, including automobiles and trucks -----	47 062	90 065	56 963	39 824	2	2	5	3
New automobiles and trucks, intended primarily for highway use -----	21 156	38 641	(NA)	(NA)	4	2	(NA)	(NA)
Used machinery and equipment, including automobiles and trucks -----	19 018	20 437	14 657	7 417	4	5	13	7
Retirements and disposition of depreciable assets -----	35 848	(NA)	(NA)	(NA)	15	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	844 444	654 549	424 410	(NA)	2	1	3	(NA)
Depreciation charges during year -----	97 883	72 706	49 760	(NA)	2	1	3	(NA)

Table 6. Value of Inventories for Establishments With Payroll: 1982 and 1981

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	9 648	2
Total construction receipts	4 884 399	1
Establishments with inventories:		
Number	2 851	6
Total construction receipts	2 402 366	1
Inventories¹:		
End of 1982, total	118 643	5
Value for establishments with LIFO reserve	5 767	4
Amount of LIFO reserve	1 639	12
Value for establishments with no LIFO reserve	112 876	5
End of 1981, total	110 802	4
Value for establishments with LIFO reserve	7 716	3
Amount of LIFO reserve	2 319	9
Value for establishments with no LIFO reserve	103 086	4
Establishments with no inventories:		
Number	6 797	2
Total construction receipts	2 482 033	1

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Establishments with an average of—									
	Total	1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1982										
Number of establishments	9 648	6 288	1 790	872	510	111	52	18	3	3
All employees**	77 804	12 345	11 687	11 714	14 782	7 380	7 375	5 929	2 116	4 475
Payroll, all employees	1 467 103	122 279	153 339	198 003	313 503	166 529	182 381	143 374	55 416	132 279
Construction worker hours (thousands)	98 978	14 411	13 455	13 724	19 244	9 874	10 892	7 476	2 828	7 070
All business receipts	5 037 326	566 599	585 255	704 207	1 721 664	(D)	577 327	882 273	(D)	(D)
Total construction receipts	4 884 399	551 108	565 433	679 411	1 087 904	568 229	563 804	495 534	102 145	270 830
Net construction receipts†	3 953 085	480 681	483 891	567 575	886 663	445 923	435 647	350 524	302 180	(D)
Value added††	2 470 522	269 739	293 175	342 045	533 544	297 060	282 993	240 895	34 516	176 553
Payments for materials, components, supplies, and fuels	1 613 257	220 279	208 130	244 049	380 815	179 302	166 176	173 616	(D)	40 887
Payments for construction work subcontracted to others	931 313	70 426	81 542	111 836	201 241	122 306	128 157	145 010	70 795	(D)
Rental payments for machinery, equipment, and structures	55 992	5 568	7 875	9 162	11 880	6 981	6 292	3 349	4 882	(D)
Capital expenditures, other than land	84 032	10 767	11 265	12 390	22 230	9 612	10 305	5 888	1 574	(D)
End-of-year gross book value of depreciable assets	1 054 845	154 324	130 597	153 047	244 097	127 442	105 818	103 910	(D)	35 609
1977										
All employees**	99 225	14 161	14 420	15 070	19 011	10 028	9 812	7 512	5 491	3 720
Total construction receipts	4 688 990	591 880	567 099	621 623	927 911	532 893	570 968	377 411	357 119	142 087
Value added††	2 157 956	250 811	256 135	301 502	445 023	243 937	268 447	129 673	148 889	113 538
1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	1	3	4	4	1	(W)	(W)	(W)	(W)	(W)
Net construction receipts†	1	3	4	3	1	(W)	(W)	(W)	(W)	—
Capital expenditures, other than land	2	9	9	7	1	(W)	(W)	(W)	(W)	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

Table 8. Selected Statistics for Establishments With Payroll by Receipts Size Class: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with all business receipts of—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1982											
Number of establishments -----	9 648	1 364	1 144	1 896	2 510	1 186	701	505	196	84	60
All employees** -----	77 804	1 652	1 832	4 277	9 772	8 704	8 884	11 755	8 041	6 220	16 666
Payroll, all employees -----	1 467 103	4 682	10 869	36 191	113 448	117 604	148 895	237 844	186 986	154 335	456 249
Construction worker hours (thousands) -----	98 978	1 241	1 896	4 565	11 695	9 979	10 862	15 078	10 790	9 198	23 669
All business receipts -----	5 037 326	16 020	42 003	136 322	400 024	414 928	490 089	784 872	689 591	576 772	1 486 703
Total construction receipts -----	4 884 399	15 764	41 647	133 565	390 153	399 284	476 907	765 812	660 413	552 485	1 448 366
Net construction receipts† -----	3 953 085	12 649	38 911	122 808	354 349	355 308	418 021	642 371	526 976	446 111	1 035 579
Value added†† -----	2 470 522	7 365	23 445	72 212	204 907	212 192	255 115	395 256	334 626	269 943	695 459
Payments for materials, components, supplies, and fuels -----	1 613 257	5 483	15 700	52 534	157 351	155 167	174 218	263 025	217 110	194 211	378 457
Payments for construction work subcontracted to others -----	931 313	*3 114	2 736	10 757	35 803	43 976	58 886	123 441	133 437	106 374	412 787
Rental payments for machinery, equipment, and structures -----	55 992	266	409	1 202	4 284	5 844	6 353	10 218	7 535	7 271	12 606
Capital expenditures, other than land -----	84 032	143	647	2 970	14 286	9 580	9 503	12 480	9 273	7 158	17 989
End-of-year gross book value of depreciable assets -----	1 054 845	5 924	14 575	41 737	110 788	109 349	120 261	153 175	139 104	111 571	248 358
1977											
All employees** -----	99 225	(S)	3 354	6 570	12 334	11 647	11 914	14 937	9 651	*26 689	(NA)
Total construction receipts -----	4 688 990	(S)	59 032	159 008	401 253	454 716	566 100	855 978	539 091	*1 632 667	(NA)
Value added†† -----	2 157 956	(S)	34 967	83 836	202 129	217 475	270 105	383 021	261 766	*692 871	(NA)
1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees** -----	1	6	5	5	3	5	4	1	(W)	(W)	(W)
Net construction receipts† -----	1	11	6	4	4	5	4	2	(W)	(W)	(W)
Capital expenditures, other than land -----	2	31	22	15	6	10	9	4	(W)	(W)	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

*Data for this size class includes establishments with receipts of \$10,000,000 or more, which were not tabulated separately in 1977.

Table 9. Construction Receipts for Establishments With Payroll by Type of Construction: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Construction receipts			Relative standard error of estimate (percent) for column—		
	Total	New construction ¹	Maintenance and repair			
	A	B	C	A	B	C
1982						
Total construction receipts†	4 884 399	3 618 440	1 265 958	1	1	1
Building construction	3 263 355	2 492 424	770 931	1	1	1
Single-family houses	721 351	484 800	236 551	3	4	4
Single-family houses, detached	653 004	428 682	224 322	3	4	4
Single-family houses, attached	68 346	56 117	12 228	7	8	8
Apartment buildings with two or more apartments	173 533	145 716	27 816	4	5	6
Other residential buildings	85 338	73 441	11 897	2	1	5
Office and bank buildings	377 001	308 888	68 112	1	1	3
Office buildings	316 518	261 750	54 768	1	1	3
Bank buildings and other financial institutions	60 482	47 138	13 344	4	5	3
Farm buildings	40 805	32 022	8 783	8	10	11
Industrial buildings and warehouses	893 973	679 110	214 863	1	1	2
Industrial buildings	777 485	580 232	197 253	1	1	2
Warehouses	116 487	98 877	17 609	4	5	6
Stores, restaurants, public garages, and automobile service stations	288 906	220 760	68 146	3	3	5
Religious buildings	60 910	45 093	15 816	5	6	6
Educational buildings	274 122	219 541	54 581	2	1	3
Hospitals and institutional buildings	274 960	237 594	37 366	1	1	1
Other nonresidential buildings	72 456	45 457	27 000	9	7	26
Nonbuilding construction	1 301 187	875 303	425 883	1	1	1
Highways, streets, and related facilities	309 697	123 407	186 290	1	2	2
Parking areas	21 993	13 685	8 307	9	10	9
Bridges, tunnels, and elevated highways	80 697	54 735	25 961	4	5	5
Conservation and development construction	19 987	15 922	4 065	13	14	25
Power and communication transmission lines, towers, and related facilities	93 038	80 463	12 574	2	1	4
Sewers, water mains, and related facilities	149 359	119 131	30 228	3	3	9
Sewage treatment and water treatment plants	67 873	55 065	12 807	2	2	7
Sewage treatment plants	49 295	40 366	8 929	2	2	1
Water treatment plants	18 578	14 699	3 878	5	1	23
Heavy industrial facilities	448 004	333 526	114 477	(W)	(W)	1
Blast furnaces, petroleum refineries, and chemical complexes	209 808	127 334	82 473	1	1	1
Power plants	238 195	206 192	32 003	(W)	(W)	2
Power plants, nuclear	175 579	(D)	(D)	(W)	—	—
Power plants, except nuclear	62 616	(D)	(D)	1	—	—
Other nonbuilding construction	110 539	79 369	31 174	4	5	6
Construction work, n.s.k.	319 855	250 712	69 143	4	4	8
1977						
Total construction receipts†	4 688 990	3 802 963	886 027	1	1	1
Building construction	3 258 790	2 660 623	598 167	1	1	2
Single-family houses	1 152 633	929 040	223 593	3	3	4
Apartment buildings with two or more apartments	235 257	217 124	18 133	2	3	8
Other residential buildings	39 022	30 445	8 577	2	2	4
Office and bank buildings	203 469	167 572	35 897	2	2	4
Farm buildings	65 599	54 724	10 875	7	8	10
Industrial buildings and warehouses	809 127	635 965	173 162	1	1	2
Stores, restaurants, public garages, and automobile service stations	175 742	129 383	46 359	2	2	4
Religious buildings	44 559	28 608	15 951	4	3	8
Educational buildings	271 139	237 060	34 079	1	1	3
Hospitals and institutional buildings	219 440	197 940	21 500	2	2	4
Other nonresidential buildings	42 804	32 762	10 042	5	5	11
Nonbuilding construction	1 225 816	966 699	259 117	1	1	1
Highways, streets, and related facilities	297 212	191 504	105 708	1	2	1
Bridges, tunnels, and elevated highways	73 067	48 675	24 392	2	1	4
Power and communication transmission lines, towers, and related facilities	53 217	30 340	22 877	1	2	1
Sewers, water mains, and related facilities	144 644	129 916	14 728	2	2	8
Sewage treatment and water treatment plants	114 304	111 746	2 558	(W)	(W)	8
Heavy industrial facilities	197 888	157 486	40 402	(W)	(W)	(W)
Power plants	184 175	170 772	13 403	(W)	(W)	3
Other nonbuilding construction	161 309	126 260	35 049	3	3	3
Construction work, n.s.k.	204 432	175 413	29 019	6	6	5

¹Includes data for work done as additions and alterations.

Table 10. Quarterly Construction Worker Hours and Employment for Establishments With

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction Industries and subdividers and developers-----	9 648	63 456	98 978	54 059	21 011	63 951	25 096
15,16,17	Construction Industries:							
15	General building contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses-----	1 665	5 112	6 920	4 379	1 462	5 277	1 836
1522	Other residential buildings-----	134	846	1 532	768	351	865	399
1531	Operative builders-----	256	740	1 233	631	270	731	313
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses-----	175	5 045	6 980	4 484	1 513	4 972	1 752
1542	Nonresidential buildings, n.e.c.-----	517	5 125	8 396	4 143	1 650	4 970	2 082
16	Heavy construction general contractors:							
1611	Highway and street construction-----	191	2 769	4 576	1 154	459	2 960	1 207
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction-----	39	677	1 126	375	145	789	301
1623	Water, sewer, and utility lines-----	157	2 497	4 093	1 911	771	2 496	1 033
1629	Heavy construction, n.e.c.-----	192	4 802	9 044	4 661	2 195	5 201	2 303
17	Special trade contractors:							
1711	Plumbing, heating, and air conditioning-----	1 334	8 943	14 289	8 458	3 400	8 911	3 579
1721	Painting, paper hanging, and decorating-----	517	2 341	3 732	1 983	885	2 164	857
1731	Electrical work-----	753	6 099	10 079	6 043	2 480	5 956	2 483
174	Masonry, plastering, and tile setting:							
1741	Masonry, stone setting, and other stonework-----	489	1 968	2 472	1 445	442	1 927	619
1742	Plastering, drywall, and insulation work-----	310	2 451	3 804	2 393	928	2 415	952
1743	Terrazzo, tile, marble, and mosaic work-----	42	205	311	192	77	200	78
175	Carpentering and flooring:							
1751	Carpentering-----	581	1 847	2 439	1 506	486	1 775	631
1752	Floor laying and other floorwork-----	162	443	590	410	127	424	146
1761	Roofing and sheet metal work-----	485	3 665	5 454	3 099	1 108	3 592	1 355
1771	Concrete work-----	391	1 795	2 616	864	316	2 067	739
1781	Water well drilling-----	89	264	421	244	98	258	105
179	Miscellaneous special trade contractors:							
1791	Structural steel erection-----	65	807	1 156	687	256	779	275
1793	Glass and glazing work-----	58	345	426	324	97	332	103
1794	Excavating and foundation work-----	518	2 443	3 806	2 011	738	2 565	1 012
1795	Wrecking and demolition work-----	14	70	89	58	20	79	22
1796	Installing building equipment, n.e.c.-----	79	686	1 142	632	268	638	283
1799	Special trade contractors, n.e.c.-----	373	1 399	2 134	1 142	434	1 529	593
6552	Subdividers and developers, n.e.c.-----	53	63	104	56	*24	66	26

¹Sum of construction workers during pay periods including 12th of March, May, August, and November.

Payroll by Industry: 1982

July to September		October to December		Relative standard error of estimate (percent) for column—										SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
69 551	28 101	62 479	24 767	1	1	1	1	1	1	1	1	1	1	15,16, 17 15
5 505 916	1 917 414	4 748 791	1 703 367	5 8	5 8	5 7	7 7	5 8	6 9	5 9	6 10	5 9	6 10	152 1521 1522
777	332	728	317	9	9	9	13	9	12	9	12	8	12	1531
5 735 5 890	2 010 2 484	4 897 5 257	1 704 2 179	2 2	2 3	2 3	2 3	2 2	2 3	2 2	2 3	2 3	2 3	154 1541 1542
														16
3 740	1 687	3 127	1 221	2	2	5	6	3	2	2	2	2	2	1611
														162
933 2 651 4 673	435 1 156 2 358	590 2 876 4 583	243 1 132 2 188	5 3 1	5 3 1	4 3 1	6 4 1	6 3 2	7 4 2	4 3 1	5 3 1	8 2 1	7 3 1	1622 1623 1629
														17
9 177	3 720	8 780	3 589	2	2	2	2	2	2	2	2	2	3	1711
3 062	1 225	1 901	763	7	7	5	6	6	8	15	17	6	7	1721
6 361	2 642	5 778	2 473	2	2	2	3	2	3	2	3	2	3	1731
														174
2 219 2 660 215	709 1 065 80	2 062 2 204 183	700 858 75	7 4 18	7 4 18	8 4 18	11 5 22	8 4 17	10 5 22	7 4 17	9 5 21	7 4 18	9 5 24	1741 1742 1743
1 973 494	692 181	1 852 402	629 136	7 12	8 13	7 13	12 19	9 13	12 19	7 14	10 18	6 13	10 18	175 1751 1752
3 909	1 540	3 850	1 450	4	4	5	6	4	5	4	5	4	5	1761
2 230	866	1 856	693	7	8	9	13	8	10	7	9	7	9	1771
271	115	245	103	17	17	17	24	16	23	16	21	16	22	1781
903 361 112	315 112	830 352	308 112	4 10	3 8	4 10	4 12	4 9	4 12	5 10	5 11	3 9	4 11	179 1791 1793
2 607 68 618 1 535	1 113 24 261 612	2 333 70 839 1 273	941 21 329 493	6 (W) 6 6	8 (W) 7 7	7 (W) 7 6	8 (W) 8 9	6 (W) 6 7	7 (W) 9 9	6 (W) 7 7	7 (W) 9 9	6 (W) 6 6	7 (W) 6 8	1794 1795 1796 1799
61	23	64	26	26	26	29	44	24	35	27	40	26	39	6552

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker (thousands)	Total construction receipts per employee (\$1,000)	Average per dollar of total construction receipts				
						Payroll, all employees	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Rental payments for machinery, equipment, and structures
	Construction Industries and subdividers and developers	8.1	18.9	1.6	77.0	.300	.330	.191	.017	.011
15,16, 17	Construction Industries:									
15	General building contractors and operative builders:									
152	General contractors, residential buildings:									
1521	Single-family houses	3.7	10.9	1.4	63.8	.208	.413	.192	.013	.009
1522	Other residential buildings	8.3	17.9	1.8	127.3	.186	.243	.425	.006	.004
1531	Operative builders	4.9	15.5	1.7	177.9	.147	.399	.358	.058	.005
154	General contractors, nonresidential buildings:									
1541	Industrial buildings and warehouses	34.8	20.0	1.4	90.0	.269	.323	.351	.008	.006
1542	Nonresidential buildings, n.e.c.	12.9	19.6	1.6	138.3	.185	.219	.499	.009	.007
16	Heavy construction general contractors:									
1611	Highway and street construction	18.4	20.4	1.7	106.2	.243	.461	.135	.022	.014
162	Heavy construction, except highway:									
1622	Bridge, tunnel, and elevated highway construction	20.7	19.6	1.7	81.6	.286	.364	.170	.039	.026
1623	Water, sewer, and utility lines	18.8	19.7	1.6	70.1	.334	.321	.095	.048	.025
1629	Heavy construction, n.e.c.	27.8	32.1	1.9	72.5	.493	.195	.062	.013	.017
17	Special trade contractors:									
1711	Plumbing, heating, and air conditioning	8.7	20.2	1.6	81.3	.324	.368	.135	.012	.012
1721	Painting, paper hanging, and decorating	5.0	14.0	1.6	38.3	.405	.219	.036	.013	.012
1731	Electrical work	10.1	22.1	1.7	74.4	.370	.379	.029	.015	.009
174	Masonry, plastering, and tile setting:									
1741	Masonry, stone setting, and other stonework	4.3	12.6	1.3	34.5	.394	.297	.056	.025	.016
1742	Plastering, drywall, and insulation work	9.3	18.5	1.6	52.9	.410	.335	.046	.015	.010
1743	Terrazzo, tile, marble, and mosaic work	6.2	16.7	1.5	59.8	.352	.375	.039	.021	.012
175	Carpentering and flooring:									
1751	Carpentering	3.6	9.7	1.3	37.0	.301	.336	.163	.012	.011
1752	Floor laying and other floorwork	3.3	15.0	1.3	66.8	.272	.454	.045	.013	.004
1761	Roofing and sheet metal work	9.1	18.3	1.5	82.0	.355	.390	.036	.013	.008
1771	Concrete work	5.3	13.6	1.5	50.7	.312	.465	.052	.019	.010
1781	Water well drilling	3.6	16.1	1.6	71.1	.273	.388	.026	.025	.002
179	Miscellaneous special trade contractors:									
1791	Structural steel erection	14.8	23.4	1.4	62.5	.446	.233	.068	.017	.029
1793	Glass and glazing work	8.3	18.8	1.2	80.7	.325	.481	.015	.009	.013
1794	Excavating and foundation work	5.6	15.3	1.6	63.8	.284	.281	.073	.047	.028
1795	Wrecking and demolition work	6.2	10.4	1.3	44.0	.295	.109	.059	.042	.042
1796	Installing building equipment, n.e.c.	10.8	23.6	1.7	68.8	.426	.235	.038	.020	.013
1799	Special trade contractors, n.e.c.	4.7	12.6	1.5	53.6	.296	.448	.067	.029	.020
6552	Subdividers and developers, n.e.c.	4.4	13.8	1.7	141.5	.362	.234	.313	.049	.011

Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	CHICAGO-GARY-KENOSHA, ILL.-IND.-WIS., SCSA											
	Construction industries and subdividers and developers..	11 368	127 397	3 011 816	10 111 586	7 687 248	5 125 257	2 778 356	2 424 338	121 997	1	(W)
15,16,17	Construction industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	1 319	5 292	84 241	427 012	305 435	171 904	139 110	121 577	4 250	4	5
1522	Other residential buildings	153	2 052	39 715	267 523	82 171	65 606	(D)	185 352	(D)	5	8
1531	Operative builders	268	1 597	33 747	249 518	132 576	79 787	55 473	116 942	(D)	5	4
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	206	4 881	125 139	622 367	320 609	191 888	156 447	301 758	(D)	2	2
1542	Nonresidential buildings, n.e.c.	465	9 190	243 510	1 548 011	592 155	413 214	188 794	955 856	7 821	2	1
18	Heavy construction general contractors:											
1611	Highway and street construction	230	4 238	109 494	431 084	347 484	184 866	(D)	83 600	7 722	2	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	33	1 245	36 183	147 829	113 501	80 604	(D)	34 328	986	3	2
1623	Water, sewer, and utility lines	197	4 913	128 857	334 596	288 230	189 525	(D)	46 367	(D)	2	2
1629	Heavy construction, n.e.c.	94	7 791	261 276	832 720	664 507	485 153	187 012	168 213	17 959	(W)	(W)
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning	1 740	17 585	425 837	1 202 969	1 072 075	680 051	408 437	130 895	12 301	2	1
1721	Painting, paper hanging, and decorating	756	4 481	85 271	176 363	170 333	133 105	38 667	6 031	2 523	4	3
1731	Electrical work	1 008	17 421	481 817	1 155 911	1 112 917	745 005	387 618	42 995	11 205	1	1
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework	537	4 530	82 767	223 233	(D)	160 851	(D)	(D)	2 826	4	-
1742	Plastering, drywall, and insulation work	393	6 592	153 589	361 243	332 900	233 508	(D)	28 343	2 800	2	2
1743	Terrazzo, tile, marble, and mosaic work	73	1 416	21 351	60 529	59 499	38 030	23 009	1 030	298	4	5
175	Carpentering and flooring:											
1751	Carpentering	899	4 785	81 498	260 505	224 881	142 213	88 152	35 625	2 126	4	4
1752	Floor laying and other floorwork	237	1 459	27 617	86 214	81 256	47 376	37 844	4 958	827	6	4
1761	Roofing and sheet metal work	707	7 716	172 881	483 978	452 812	295 203	(D)	31 166	6 965	3	2
1771	Concrete work	708	6 141	106 553	367 523	327 253	197 775	(D)	40 270	5 560	4	3
1781	Water well drilling	48	292	5 509	19 173	18 774	11 020	7 883	399	517	15	12
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	96	1 878	44 895	112 546	97 952	74 263	(D)	14 594	(D)	3	2
1793	Glass and glazing work	116	1 215	29 153	99 863	96 262	50 552	(D)	3 601	(D)	6	5
1794	Excavating and foundation work	324	3 071	66 796	215 379	190 053	150 847	50 720	25 327	9 608	3	3
1795	Wrecking and demolition work	44	666	13 027	26 261	24 920	25 277	3 953	1 341	2 479	4	2
1796	Installing building equipment, n.e.c.	104	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2	-
1799	Special trade contractors, n.e.c.	499	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4	-
6552	Subdividers and developers, n.e.c.	120	851	15 118	39 401	28 842	24 142	8 936	10 560	1 152	5	6
	CINCINNATI-HAMILTON, OHIO-KY.-IND., SCSA											
	Construction industries and subdividers and developers ..	3 026	24 414	450 828	1 695 320	1 257 522	747 572	541 710	437 797	21 350	1	1
15,18,17	Construction industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	474	2 007	27 353	189 259	126 669	77 083	53 696	62 590	1 000	7	5
1522	Other residential buildings	40	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1531	Operative builders	71	621	11 837	98 317	(D)	26 083	(D)	(D)	(D)	10	-
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	52	824	18 479	107 091	(D)	30 265	21 916	(D)	(D)	5	-
1542	Nonresidential buildings, n.e.c.	121	1 625	36 421	244 050	52 964	37 753	191 086	1 878	1 878	4	6

Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	CINCINNATI-HAMILTON, OHIO-KY.-IND., SCSA—Con.											
15,16, 17	Construction Industries—Con.											
16	Heavy construction general contractors:											
1611	Highway and street construction -----	62	1 134	24 432	134 018	121 927	42 161	84 689	12 091	(D)	6	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	3	59	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(W)	-
1623	Water, sewer, and utility lines -----	39	635	9 383	30 238	25 316	16 963	(D)	4 922	(D)	10	10
1629	Heavy construction, n.e.c. -----	16	1 200	(D)	48 807	(D)	(D)	(D)	(D)	(D)	(W)	-
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning-----	458	4 229	79 210	235 181	212 144	128 991	85 483	23 038	2 584	3	4
1721	Painting, paper hanging, and decorating -----	229	1 097	13 822	29 934	28 793	22 121	6 695	1 141	470	9	9
1731	Electrical work -----	204	2 112	49 903	119 304	117 789	72 905	45 891	1 515	1 019	5	3
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework -----	179	924	12 745	29 876	29 489	19 545	9 966	387	(D)	11	10
1742	Plastering, drywall, and insulation work -----	119	1 099	22 267	55 808	53 995	34 775	19 654	1 813	(D)	7	6
1743	Terrazzo, tile, marble, and mosaic work -----	25	154	2 805	6 467	6 421	3 828	2 717	46	45	21	16
175	Carpentering and flooring:											
1751	Carpentering -----	178	798	10 352	36 438	31 182	20 031	(D)	5 257	(D)	10	10
1752	Floor laying and other floorwork-----	43	239	3 693	11 421	11 093	6 221	5 706	328	149	13	13
1761	Roofing and sheet metal work -----	180	1 328	24 889	72 122	68 239	40 387	28 071	3 884	1 442	8	7
1771	Concrete work -----	152	1 317	21 938	60 266	(D)	37 178	18 818	(D)	1 030	6	-
1781	Water well drilling -----	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	23	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1793	Glass and glazing work -----	34	225	4 304	12 590	12 260	7 476	5 830	*330	*87	20	20
1794	Excavating and foundation work-----	142	971	18 011	68 142	63 293	42 118	22 376	4 849	1 609	9	13
1795	Wrecking and demolition work -----	7	88	(D)	6 861	(D)	4 296	(D)	(D)	(D)	(W)	-
1796	Installing building equipment, n.e.c. -----	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1799	Special trade contractors, n.e.c.-----	115	649	9 411	34 065	31 310	19 655	13 553	2 755	918	12	10
6552	Subdividers and developers, n.e.c. ---	31	123	2 293	7 860	6 404	6 076	874	*1 456	57	11	22
	CINCINNATI, OHIO-KY.-IND., SMSA											
	Construction Industries and subdividers and developers	2 572	20 854	381 237	1 487 565	1 081 822	634 539	471 683	405 743	19 229	2	2
15,16, 17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	419	1 791	24 921	178 110	117 417	72 210	49 160	60 693	913	8	5
1522	Other residential buildings -----	36	140	1 823	7 839	6 001	4 521	1 746	1 838	*157	23	29
1531	Operative builders -----	50	565	10 651	85 658	47 633	26 594	(D)	38 025	461	11	7
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	49	774	17 414	104 747	49 305	28 410	21 302	55 442	589	6	6
1542	Nonresidential buildings, n.e.c. -----	108	1 542	34 834	234 002	47 577	(D)	36 468	186 425	1 849	4	6
16	Heavy construction general contractors:											
1611	Highway and street construction -----	52	947	20 333	116 575	106 791	32 859	77 796	9 784	3 019	6	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1623	Water, sewer, and utility lines -----	29	469	7 263	24 587	20 630	14 255	6 611	3 957	772	13	11
1629	Heavy construction, n.e.c. -----	12	750	11 098	29 882	27 591	20 077	(D)	2 291	697	(W)	(W)

Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	CINCINNATI, OHIO-KY.-IND., SMSA—Con.											
15,16, 17	Construction Industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air conditioning	393	3 942	74 115	219 873	197 756	121 274	78 784	22 118	2 365	4	4
1721	Painting, paper hanging, and decorating	197	1 014	13 022	27 845	26 738	20 498	6 263	1 107	467	10	9
1731	Electrical work	169	1 818	42 060	98 938	97 670	61 202	37 470	1 268	878	5	3
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework	148	797	11 167	25 730	25 440	16 874	8 583	290	367	13	11
1742	Plastering, drywall, and insulation work	98	946	20 016	50 010	48 438	31 388	17 347	1 572	513	7	6
1743	Terrazzo, tile, marble, and mosaic work	18	131	2 386	5 312	5 288	3 153	2 259	24	45	22	16
175	Carpentering and flooring:											
1751	Carpentering	143	679	9 039	31 229	27 756	18 011	9 816	3 474	*283	11	11
1752	Floor laying and other floorwork	38	215	3 475	10 755	10 447	5 743	5 092	308	149	14	14
1761	Roofing and sheet metal work	156	1 143	21 830	63 608	60 004	35 436	24 786	3 605	1 310	8	5
1771	Concrete work	129	693	7 521	23 521	20 987	13 656	7 997	2 534	308	11	13
1781	Water well drilling	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	—
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	18	334	7 470	13 314	12 829	11 009	2 048	485	(D)	9	8
1793	Glass and glazing work	29	200	3 751	11 184	10 854	6 595	5 305	*330	*87	22	21
1794	Excavating and foundation work	121	851	15 732	60 833	56 720	37 883	19 960	4 113	1 381	9	15
1795	Wrecking and demolition work	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	—
1796	Installing building equipment, n.e.c.	25	296	7 593	17 314	16 974	11 959	13 013	340	192	2	(W)
1799	Special trade contractors, n.e.c.	104	616	9 145	32 430	29 748	18 581	13 013	2 682	870	13	10
6552	Subdividers and developers, n.e.c.	25	114	2 233	7 671	6 269	5 965	820	*1 402	57	9	23
	GARY-HAMMOND-EAST CHICAGO SMSA											
	Construction Industries and subdividers and developers ..	890	12 335	320 055	761 785	652 420	493 707	174 918	109 365	8 996	1	1
15,16, 17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	131	417	5 908	37 893	28 801	13 490	15 726	9 092	279	13	11
1522	Other residential buildings	*6	*49	*1 027	(S)	(S)	(S)	(D)	*1 580	(D)	65	—
1531	Operative builders	33	127	1 853	11 772	9 601	6 696	2 952	2 171	(D)	25	28
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	7	1 098	22 786	55 708	37 986	25 219	12 949	17 722	(D)	(W)	(W)
1542	Nonresidential buildings, n.e.c.	41	569	14 769	57 576	26 483	18 812	8 028	31 093	503	8	5
18	Heavy construction general contractors:											
1611	Highway and street construction	25	238	5 806	29 883	25 398	16 996	(D)	4 485	706	10	7
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	3	18	*387	*1 954	*1 457	*365	(D)	497	*56	18	57
1623	Water, sewer, and utility lines	16	125	3 209	9 554	8 472	5 585	(D)	1 082	(D)	11	6
1629	Heavy construction, n.e.c.	17	3 760	137 591	236 858	222 099	199 936	22 580	14 759	1 406	(W)	(W)
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning	123	1 469	36 217	99 460	83 917	55 833	30 699	15 543	1 621	5	4
1721	Painting, paper hanging, and decorating	51	292	5 449	12 437	11 864	9 272	2 784	573	133	11	12
1731	Electrical work	63	1 503	40 331	89 374	86 990	62 287	28 112	2 384	1 481	3	2
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework	44	172	2 923	8 735	(D)	5 050	2 499	(D)	325	18	—
1742	Plastering, drywall, and insulation work	35	335	5 160	13 177	12 800	8 638	(D)	378	160	7	8
1743	Terrazzo, tile, marble, and mosaic work	*2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	—
175	Carpentering and flooring:											
1751	Carpentering	39	152	1 845	6 311	4 897	2 614	2 473	*1 414	*24	21	20
1752	Floor laying and other floorwork	31	*74	881	2 002	1 997	1 306	691	(S)	—	41	27

Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	GARY-HAMMOND-EAST CHICAGO SMSA—Con.											
15,16, 17	Construction industries—Con.											
17	Special trade contractors—Con.											
175	Carpentering and flooring—Con.											
1761	Roofing and sheet metal work	58	681	14 076	30 487	29 303	22 537	(D)	1 185	324	12	9
1771	Concrete work	53	228	3 215	10 876	10 402	6 888	(D)	474	*40	20	14
1781	Water well drilling	*8	*28	*172	*1 575	*1 554	*838	*717	(S)	*189	62	61
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	8	161	3 730	8 849	8 556	6 479	(D)	293	(D)	12	3
1793	Glass and glazing work	6	68	1 495	3 368	3 328	1 573	(D)	40	(D)	(W)	(W)
1794	Excavating and foundation work	44	416	6 885	15 571	13 787	11 253	3 456	1 784	18	13	13
1795	Wrecking and demolition work	—	—	—	—	—	—	—	—	—	—	—
1796	Installing building equipment, n.e.c.	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	—
1799	Special trade contractors, n.e.c.	47	322	3 463	9 835	8 998	6 353	(D)	837	(D)	9	7
6552	Subdividers and developers, n.e.c.	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	—
	INDIANAPOLIS SMSA											
	Construction industries and subdividers and developers.	2 204	21 449	406 412	1 508 414	1 147 357	680 028	481 678	361 057	25 677	1	1
15,16, 17	Construction industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	254	1 283	17 000	88 450	68 494	35 874	33 891	19 956	835	8	10
1522	Other residential buildings	39	541	12 144	76 033	40 720	23 403	18 277	35 313	482	5	3
1531	Operative builders	80	537	9 013	67 975	38 753	13 971	25 075	29 222	(D)	12	8
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	41	674	12 588	53 850	30 909	18 571	12 853	22 941	(D)	12	10
1542	Nonresidential buildings, n.e.c.	121	2 059	43 486	284 989	118 966	74 897	49 771	166 023	1 530	4	3
16	Heavy construction general contractors:											
1611	Highway and street construction	68	1 178	22 238	84 345	69 642	34 673	36 712	14 703	875	5	4
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	8	180	3 673	11 800	10 109	5 513	(D)	1 691	671	(W)	(W)
1623	Water, sewer, and utility lines	26	419	7 951	27 381	24 101	17 125	7 224	3 280	1 647	11	4
1629	Heavy construction, n.e.c.	40	395	7 069	24 592	22 230	12 344	10 013	2 362	411	8	6
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning	317	3 835	75 751	242 766	204 402	120 198	89 122	38 364	1 999	4	3
1721	Painting, paper hanging, and decorating	150	984	15 944	37 293	35 654	27 693	8 052	1 639	522	8	7
1731	Electrical work	155	2 425	57 121	161 195	157 202	98 429	59 049	3 993	2 584	4	2
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework	123	647	6 605	16 783	16 063	11 249	4 887	720	*750	12	14
1742	Plastering, drywall, and insulation work	77	1 370	28 610	68 348	65 370	43 882	22 544	2 978	1 070	5	5
1743	Terrazzo, tile, marble, and mosaic work	8	108	2 047	6 435	6 121	3 760	2 409	314	*215	29	28
175	Carpentering and flooring:											
1751	Carpentering	140	692	8 199	21 007	18 427	12 942	5 991	2 580	360	12	12
1752	Floor laying and other floorwork	43	268	5 272	21 153	19 973	11 035	(D)	1 180	(D)	17	7
1761	Roofing and sheet metal work	103	1 044	21 174	67 139	63 655	37 079	26 760	3 485	961	7	5
1771	Concrete work	92	620	9 565	25 698	24 654	13 727	(D)	1 044	420	12	11
1781	Water well drilling	*10	39	562	2 476	(D)	1 251	1 129	(D)	—	24	—
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	21	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	—	—
1793	Glass and glazing work	18	145	3 609	11 098	10 883	5 053	6 047	*215	44	4	2
1794	Excavating and foundation work	107	541	9 076	30 319	28 211	19 480	9 250	2 108	1 089	12	9
1795	Wrecking and demolition work	5	36	313	1 531	(D)	1 313	129	(D)	(D)	(W)	—
1796	Installing building equipment, n.e.c.	19	355	9 180	21 222	20 539	17 017	(D)	683	258	(W)	(W)
1799	Special trade contractors, n.e.c.	127	689	10 596	33 180	30 616	17 450	15 118	2 564	837	9	9
6552	Subdividers and developers, n.e.c.	17	(S)	(S)	(D)	(S)	(D)	(S)	(D)	(D)	—	—

Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	LOUISVILLE, KY.-IND., SMSA											
	Construction industries and subdividers and developers	1 824	18 848	323 269	1 218 244	947 841	580 148	391 908	270 403	19 277	2	1
15, 16, 17	Construction industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	224	791	8 265	43 401	32 991	17 486	15 806	10 411	619	11	10
1522	Other residential buildings	25	298	4 097	26 460	11 654	6 394	5 335	14 806	745	15	15
1531	Operative builders	48	215	3 849	53 394	26 145	18 685	(D)	27 249	201	15	12
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	42	2 259	35 548	172 239	99 427	56 239	(D)	72 812	390	4	4
1542	Nonresidential buildings, n.e.c.	90	1 416	25 819	153 087	78 255	48 047	30 483	74 832	786	5	4
16	Heavy construction general contractors:											
1611	Highway and street construction	48	1 075	21 584	87 169	75 468	37 675	39 614	11 701	2 253	3	1
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	3	64	1 337	(D)	(D)	(D)	(D)	490	(D)	(W)	-
1623	Water, sewer, and utility lines	22	421	8 033	26 330	23 182	14 066	9 340	3 148	1 082	8	6
1629	Heavy construction, n.e.c.	9	498	10 215	41 756	34 042	(D)	(D)	7 714	(D)	(W)	(W)
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning	325	3 403	62 606	209 106	183 335	107 725	77 011	25 772	2 953	4	3
1721	Painting, paper hanging, and decorating	130	979	13 369	30 272	27 756	21 304	(D)	2 516	643	10	8
1731	Electrical work	139	1 673	35 176	105 658	102 519	64 661	39 790	3 139	1 297	6	4
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework	93	726	8 286	21 302	20 348	13 062	(D)	954	*1 083	14	16
1742	Plastering, drywall, and insulation work	77	903	15 965	41 592	40 325	26 098	15 161	1 267	468	9	6
1743	Terrazzo, tile, marble, and mosaic work	24	107	1 688	5 734	5 653	3 538	(D)	81	306	23	25
175	Carpentering and flooring:											
1751	Carpentering	106	485	4 896	15 649	13 354	9 206	4 460	2 295	302	16	13
1752	Floor laying and other floorwork	37	159	1 824	6 187	6 097	3 651	2 446	90	*216	34	33
1761	Roofing and sheet metal work	102	973	16 833	46 587	44 285	30 942	(D)	2 302	940	10	7
1771	Concrete work	85	628	9 643	27 599	25 475	17 253	(D)	2 125	*348	10	7
1781	Water well drilling	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	15	403	9 771	23 202	(D)	17 466	5 289	(D)	722	1	-
1793	Glass and glazing work	12	153	2 923	7 257	7 164	4 553	5 229	93	85	9	6
1794	Excavating and foundation work	50	302	4 824	14 009	12 130	9 604	2 933	1 880	447	18	12
1795	Wrecking and demolition work	6	(D)	(D)	(S)	(S)	(S)	(D)	(S)	(D)	-	-
1796	Installing building equipment, n.e.c.	23	466	11 069	31 957	30 329	19 695	(D)	1 628	504	(W)	(W)
1799	Special trade contractors, n.e.c.	72	345	4 056	15 644	15 023	9 697	5 670	621	276	16	18
6552	Subdividers and developers, n.e.c.	20	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-



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SUMMARY OF FINDINGS

During 1982, 43,875 establishments in Michigan operated primarily as general contractors or operative builders, special trade contractors, or subdividers and developers. These establishments had business receipts of \$10.1 billion.

Tables 1 and 2 of this report provide summary statistics for all establishments, establishments with paid employees, and for those with no payroll.

The 29,922 establishments in this State with no payroll accounted for about 8 percent of all business receipts for all construction establishments in Michigan. On the other hand, 13,953 establishments classified as "employers" accounted for 92 percent of all business receipts.

Tables 3 through 12 in this report provide considerably more detailed information for employers. In 1982, all business receipts for these establishments amounted to \$9.3 billion, of which \$9.0 billion were receipts for construction work. These establishments paid \$2.8 billion for construction work subcontracted to others, leaving net construction receipts of about \$6.2 billion. Value added for these establishments amounted to \$4.2 billion. (See Introduction and appendixes for explanation of terms.)

Construction establishments with payroll located in Michigan paid \$2.1 billion for materials, components, and supplies purchased for use in construction work for others; purchased and subsequently provided to subcontractors for their use; purchased and then resold to others; and purchased and used in construction work for own account. However, materials furnished to contractors by owners of projects are not included. Payments of \$171 million were also made for selected power, fuels, and

lubricants purchased during the year from other companies or received from other establishments of the parent company.

Average employment during 1982 for construction establishments with payroll in Michigan was 106 thousand employees. Hours worked by construction workers during the first quarter of 1982 were 28.2 million hours, while hours worked during the third quarter were 37.1 million hours.

Total payroll for 1982 was \$2.2 billion. Payments of \$367 million for employer costs for fringe benefits (not included in payroll) represent such expenditures during the year as employers' Social Security contributions, unemployment compensation, pension plans, and welfare plans.

The 1982 estimates for establishments with payroll are based on a probability sample of about 172,000 construction establishments in the United States. The estimates for Michigan are based on a sample of about 5,600 of these establishments. Statistics for the nonemployers were based on administrative records of the Federal Government.

The statistics reported by each establishment cover all of its activities, not just construction. Therefore, aggregates of such data for a State reflect not only the primary construction activities of the establishments in the State, but also their secondary construction activities, and any nonconstruction activities.

All data shown are based on current dollars for the years specified and have not been adjusted for price changes or for inflation between 1977 and 1982.

Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
		Number	Proprietors and working partners	All employees**	All business receipts	Number	Proprietors and working partners	All business receipts	Number	Proprietors and working partners	All employees**	All business receipts		
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1982													
	Construction industries and subdividers and developers-----	43 875	34 312	105 675	10 141 165	29 922	29 821	839 520	13 953	4 491	105 675	9 301 645	1	(W)
15,16, 17	Construction industries¹ -----	43 273	33 716	105 360	10 065 306	29 408	29 243	785 014	13 865	4 473	105 360	9 280 292	1	1
15	General building contractors and operative builders -----	10 952	8 269	20 444	3 604 697	7 459	7 214	308 891	3 493	1 055	20 444	3 295 806	2	1
16	Heavy construction, general contractors ..	1 704	1 018	23 286	2 242 485	819	810	26 123	885	208	23 286	2 216 362	1	1
17	Special trade contractors -----	30 617	24 429	61 630	4 218 124	21 130	21 219	450 000	9 487	3 210	61 630	3 768 124	1	1
1711	Plumbing, heating, and air conditioning----	3 556	2 251	13 228	1 014 847	1 774	1 769	61 063	1 782	482	13 228	953 784	2	1
1731	Electrical work -----	3 217	2 252	10 717	808 570	1 924	1 884	46 218	1 293	368	10 717	762 352	2	1
6552	Subdividers and developers, n.e.c.² -----	596	592	310	75 853	514	578	54 506	82	14	310	21 347	11	13
	1977													
	Construction industries and subdividers and developers-----	40 791	34 221	128 198	8 411 355	24 437	25 022	651 641	16 354	9 199	128 198	7 759 714	1	1
15,16, 17	Construction industries¹ -----	40 312	33 611	127 421	8 321 047	24 041	24 445	602 000	16 271	9 166	127 421	7 719 047	1	1
15	General building contractors and operative builders -----	9 674	7 448	31 768	3 099 930	4 783	4 769	271 826	4 891	2 679	31 768	2 828 104	2	1
16	Heavy construction, general contractors ..	1 947	1 322	23 243	1 743 729	931	929	28 439	1 016	393	23 243	1 715 290	1	1
17	Special trade contractors -----	28 691	24 842	72 410	3 477 388	18 327	18 747	301 735	10 364	6 095	72 410	3 175 653	1	1
1711	Plumbing, heating, and air conditioning----	3 501	2 417	15 684	919 417	1 633	1 664	44 884	1 868	753	15 684	874 533	2	2
1731	Electrical work -----	2 870	2 238	12 020	530 819	1 412	1 418	23 741	1 458	820	12 020	507 078	2	2
6552	Subdividers and developers, n.e.c.² -----	484	609	776	90 312	396	577	49 641	88	32	776	40 671	11	20

¹For establishments without payroll, may also include data for construction establishments not classified to two-digit industry detail.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. Summary Statistics for Establishments With and Without Payroll by Receipts Size Class: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees* *	All business receipts	Number	Proprietors and working partners	All business receipts	Number	Proprietors and working partners	All employees* *	All business receipts		
	A	B	C	D	E	F	G	H	I	J	K	J	K
1982													
The State -----	43 875	34 312	105 675	10 141 165	29 922	29 821	839 520	13 953	4 491	105 675	9 301 645	1	(W)
\$10,000,000 or more -----	88	4	25 002	3 987 816	-	-	-	88	4	25 002	3 987 816	(W)	(W)
\$5,000,000 to \$9,999,999 -----	146	2	9 210	(D)	1	-	(D)	145	2	9 210	(D)	(W)	-
\$2,500,000 to \$4,999,999 -----	278	21	10 451	1 973 111	8	8	32 149	270	13	10 451	1 940 962	(W)	(W)
\$1,000,000 to \$2,499,999 -----	753	50	13 553	1 165 858	29	33	41 724	724	17	13 553	1 124 134	1	2
\$500,000 to \$999,999 -----	1 197	181	11 750	832 508	85	76	55 624	1 112	105	11 750	776 884	3	3
\$250,000 to \$499,999 -----	2 027	447	11 669	711 511	206	168	71 792	1 821	279	11 669	639 719	4	3
\$100,000 to \$249,999 -----	4 507	2 317	12 801	712 030	1 100	1 058	159 163	3 407	1 259	12 801	552 867	3	3
\$50,000 to \$99,999 -----	5 004	3 637	5 993	356 110	2 394	2 449	164 873	2 610	1 188	5 993	191 237	5	4
\$25,000 to \$49,999 -----	5 984	4 994	2 808	210 870	4 246	4 292	147 475	1 738	702	2 808	63 395	5	4
Less than \$25,000 -----	23 889	22 657	2 437	191 349	21 853	21 737	166 720	2 036	920	2 437	24 629	4	4
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	7 054	6 973	110 608	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	5 389	5 380	36 548	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	5 461	5 435	15 615	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000 -----	(NA)	(NA)	(NA)	(NA)	3 949	3 949	3 949	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1977													
The State -----	40 791	34 221	128 198	8 411 355	24 437	25 022	651 641	16 354	9 199	128 198	7 759 714	1	1
\$10,000,000 or more -----	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000,000 to \$9,999,999 ² -----	199	15	30 469	(D)	1	-	(D)	198	15	30 469	2 772 427	(W)	(W)
\$2,500,000 to \$4,999,999 -----	295	19	13 404	3 770 860	7	5	29 894	288	14	13 404	968 539	(W)	1
\$1,000,000 to \$2,499,999 -----	955	130	21 677	1 457 365	45	52	64 214	910	78	21 677	1 393 151	1	1
\$500,000 to \$999,999 -----	1 315	303	15 981	917 103	64	70	45 841	1 251	233	15 981	871 262	3	3
\$250,000 to \$499,999 -----	2 270	1 009	15 484	793 242	191	197	64 822	2 079	812	15 484	728 420	3	3
\$100,000 to \$249,999 -----	4 973	3 337	17 683	782 409	685	748	102 658	4 288	2 589	17 683	679 751	3	3
\$50,000 to \$99,999 -----	4 693	4 091	7 606	334 308	1 403	1 557	94 670	3 290	2 534	7 606	239 638	5	5
\$25,000 to \$49,999 -----	5 264	4 807	3 734	186 882	2 975	3 143	102 188	2 289	1 664	3 734	84 694	6	6
Less than \$25,000 -----	20 827	20 509	(S)	169 188	19 066	19 250	147 354	(S)	(S)	(S)	(S)	-	-
\$10,000 to \$24,999 -----	7 488	7 329	1 498	117 054	6 351	6 484	98 424	1 137	845	1 498	18 630	11	9
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	4 786	4 813	32 665	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	4 852	4 870	14 007	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500 -----	(NA)	(NA)	(NA)	(NA)	3 077	3 083	2 258	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²Data for this size class includes establishments with receipts of \$10,000,000 or more, which were not tabulated separately.

Table 3. General Statistics for Establishments With Payroll by Industry: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1982							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Total construction receipts	Net construction receipts†
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
	Construction industries and subdividers and developers	13 953	105 675	84 331	2 178 928	1 663 174	131 628	8 991 253	6 174 978
15,16, 17	Construction Industries:								
15	General building contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	2 082	7 289	5 882	87 099	66 879	7 693	464 834	348 812
1522	Other residential buildings	186	1 310	994	23 473	15 056	1 404	169 463	72 633
1531	Operative builders	245	785	390	13 863	5 151	533	195 527	56 860
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	328	4 594	3 283	112 214	74 370	5 554	1 454 673	418 330
1542	Nonresidential buildings, n.e.c.	652	6 466	4 758	141 613	94 133	8 298	1 071 083	411 743
16	Heavy construction general contractors:								
1611	Highway and street construction	345	5 133	4 363	112 840	93 156	8 094	465 187	373 891
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	29	669	580	19 070	15 692	1 057	65 999	51 537
1623	Water, sewer, and utility lines	309	3 711	3 001	81 618	62 221	5 609	294 138	239 436
1629	Heavy construction, n.e.c.	202	13 773	11 084	431 849	335 508	22 130	1 233 754	890 812
17	Special trade contractors:								
1711	Plumbing, heating, and air conditioning	1 782	13 228	10 019	279 866	211 774	15 928	928 916	774 589
1721	Painting, paper hanging, and decorating	652	3 389	2 914	46 723	39 186	3 818	114 786	107 379
1731	Electrical work	1 293	10 717	8 574	242 149	193 259	13 044	736 879	716 612
174	Masonry, plastering, and tile setting:								
1741	Masonry, stone setting, and other stonework	673	2 961	2 582	36 580	29 723	2 776	106 293	100 265
1742	Plastering, drywall, and insulation work	541	3 693	3 093	70 961	58 179	4 316	189 872	175 949
1743	Terrazzo, tile, marble, and mosaic work	121	515	415	9 374	7 710	594	28 460	27 768
175	Carpentering and flooring:								
1751	Carpentering	907	3 170	2 652	43 890	34 816	3 362	155 481	135 125
1752	Floor laying and other floorwork	172	884	672	13 366	9 209	861	39 319	37 527
1761	Roofing and sheet metal work	692	6 284	5 099	117 076	89 882	7 049	395 702	371 860
1771	Concrete work	780	3 644	3 165	52 742	42 691	4 015	187 730	171 409
1781	Water well drilling	179	527	425	6 089	4 730	611	25 474	25 127
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	106	2 667	2 325	52 570	40 926	2 957	127 081	111 835
1793	Glass and glazing work	144	1 146	840	21 544	14 480	1 350	75 472	73 174
1794	Excavating and foundation work	760	3 751	3 123	58 370	47 920	4 464	222 826	197 245
1795	Wrecking and demolition work	39	376	315	6 863	5 535	503	20 640	18 831
1796	Installing building equipment, n.e.c.	155	2 065	1 650	54 179	42 980	2 680	184 531	140 598
1799	Special trade contractors, n.e.c.	491	2 613	2 010	38 552	26 973	2 755	124 544	115 744
6552	Subdividers and developers, n.e.c.	82	310	117	4 388	1 029	160	112 582	9 881

†Land receipts for SIC 1531 were \$9,413; for SIC 6552 were \$7,360.

1982—Con.						1977			Relative standard error of estimate (percent) for column—			SIC code
Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Rental payments for machinery, equipment, and structures	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
4 182 301	2 286 295	2 816 275	108 006	112 910	1 496 925	128 198	7 549 535	3 378 784	1	1	2	15,16, 17
185 654 41 864	172 991 34 405	116 022 96 830	2 836 812	5 322 1 588	56 283 13 652	12 499 1 805	677 833 176 199	219 913 28 487	4 6	3 5	5 14	152 1521 1522
32 072	26 493	38 667	558	1 164	22 314	2 566	355 894	73 936	9	9	13	1531
314 304 272 815	110 919 147 671	1 036 343 659 340	4 007 5 695	5 035 7 430	62 060 79 219	7 322 7 576	750 780 787 473	181 340 189 491	2 2	2 2	3 2	154 1541 1542
231 172	157 438	91 296	11 133	14 544	251 563	8 303	599 373	292 715	2	1	2	1611
34 897 165 762 758 119	16 909 76 758 (D)	14 462 54 701 342 942	861 10 722 18 763	1 413 8 413 11 388	23 244 142 810 107 790	797 5 581 8 562	66 326 362 317 636 579	29 902 200 400 306 317	1 3 1	(W) 2 1	1 6 3	162 1622 1623 1629
468 144	331 312	154 327	10 645	11 647	133 467	15 684	864 266	436 163	2	1	3	1711
83 624	25 089	7 407	1 897	2 049	16 372	3 602	100 669	78 835	5	4	9	1721
441 214	300 870	20 266	7 813	8 626	105 430	12 020	496 947	310 091	2	1	4	1731
66 414 117 060 16 151	34 468 67 319 11 754	6 028 13 923 691	1 671 1 875 231	1 759 1 728 221	25 708 25 636 3 230	4 368 5 251 618	146 796 196 766 30 754	94 962 120 220 17 942	5 4 11	4 3 12	8 7 16	174 1741 1742 1743
79 539 22 931	56 825 15 682	20 356 1 791	948 280	1 705 334	20 047 3 156	4 532 1 124	139 379 46 165	96 335 26 533	5 11	5 8	9 9	175 1751 1752
236 464	147 126	23 842	3 589	6 234	56 177	7 087	300 655	164 638	3	2	6	1761
104 168	73 550	16 320	3 558	3 841	55 001	4 160	169 570	92 589	5	4	8	1771
14 570	10 848	347	241	383	14 741	858	43 149	23 107	13	12	7	1781
84 852 40 082 147 433 17 848 120 370 76 750	29 197 39 015 56 359 2 374 21 417 (D)	15 246 2 298 25 580 1 809 43 933 8 800	4 866 991 8 832 1 110 1 728 2 221	2 956 688 9 157 428 1 417 2 774	24 029 7 348 180 322 6 598 18 672 32 558	1 616 989 4 358 465 1 698 3 980	74 362 39 821 204 459 15 546 97 002 144 210	46 908 23 620 139 844 11 774 67 694 91 393	2 8 5 1 2 6	3 5 4 (W) 1 6	3 20 7 (W) (W) 8	179 1791 1793 1794 1795 1796 1799
8 020	3 264	2 701	111	657	9 488	776	26 251	13 639	11	13	5	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1982 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1982	1977	1972	1967	Relative standard error of estimate (percent)			
					1982	1977	1972	1967
Number of establishments in business during year	13 953	16 354	16 404	14 205	1	2	2	2
Number of establishments in business at end of year	13 659	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Proprietors and working partners	4 491	9 199	10 423	11 086	3	3	3	3
All employees**	105 675	128 198	130 828	125 853	1	1	1	1
Construction workers:								
March	70 197	83 053	84 603	88 229	1	1	1	1
May	85 322	112 002	106 659	107 621	1	1	2	1
August	92 442	122 138	121 437	122 945	1	1	2	1
November	82 881	112 054	107 387	110 396	1	1	1	1
Average	84 331	107 420	106 685	108 637	1	1	1	1
Other employees:								
March	20 995	19 408	23 006	16 786	1	1	2	2
Construction worker hours (thousands):								
January to March	28 180	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
April to June	33 293	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
July to September	37 139	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
October to December	33 014	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Total hours worked	131 628	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Payroll, all employees	2 178 928	1 923 025	1 527 569	1 061 479	(W)	(W)	1	1
Payroll, construction workers	1 663 174	1 537 235	1 220 662	875 026	1	(W)	1	1
Payroll, other employees	515 754	385 791	306 907	186 535	1	1	2	1
First quarter payroll, all employees	480 970	353 183	(NA)	(NA)	1	(W)	(NA)	(NA)
Employer costs for fringe benefits	366 886	407 629	(NA)	(NA)	1	(W)	(NA)	(NA)
Legally required expenditures	277 744	218 863	(NA)	(NA)	1	1	(NA)	(NA)
Voluntary expenditures	89 142	188 766	(NA)	(NA)	1	(W)	(NA)	(NA)
All business receipts	9 301 645	7 759 714	5 961 230	4 232 336	(W)	1	1	1
Total construction receipts	8 991 253	7 549 535	5 746 253	4 127 817	(W)	1	1	1
Receipts for work subcontracted in from others	1 794 525	1 852 362	1 278 948	865 871	1	1	2	1
Land receipts ¹	16 773	(NA)	(NA)	(NA)	8	(NA)	(NA)	(NA)
Other business receipts	293 619	210 179	214 977	103 094	1	2	13	4
Net construction receipts†	6 174 978	5 608 217	4 169 334	2 967 588	1	1	2	1
Value added††	4 182 301	3 378 784	2 615 296	1 850 119	1	1	2	1
Selected payments	5 102 570	4 326 389	3 231 495	2 338 513	1	1	2	1
Materials, components, and supplies ²	2 115 457	2 248 550	1 654 576	1 179 026	1	1	2	1
Construction work subcontracted to others	2 816 275	1 941 319	1 576 919	1 160 336	1	1	2	2
Selected power, fuels, and lubricants	170 838	136 520	(NA)	(NA)	1	1	(NA)	(NA)
Electricity	20 067	14 087	(NA)	(NA)	2	2	(NA)	(NA)
Natural gas	13 091	11 199	(NA)	(NA)	2	2	(NA)	(NA)
Gasoline and diesel fuel (including gasohol)	124 833	94 459	(NA)	(NA)	1	1	(NA)	(NA)
Other, including lubricating oils and greases	12 845	16 779	(NA)	(NA)	2	2	(NA)	(NA)
Storage capacity for fuels (thousand gallons) ³	2 881	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Rental payments for machinery, equipment, and structures	108 006	100 294	(NA)	(NA)	1	1	(NA)	(NA)
For machinery and equipment	77 430	79 995	86 580	45 056	1	1	3	3
For structures	30 575	20 299	(NA)	(NA)	2	1	(NA)	(NA)
Selected purchased services	122 675	127 338	(NA)	(NA)	1	1	(NA)	(NA)
Communication services	36 716	31 237	(NA)	(NA)	2	1	(NA)	(NA)
Repairs to structures and related facilities	8 296	7 288	(NA)	(NA)	2	3	(NA)	(NA)
Repairs to machinery and equipment	77 662	88 813	(NA)	(NA)	2	1	(NA)	(NA)
Ownership of construction projects:								
Total construction receipts	8 991 253	7 549 535	5 746 253	4 127 817	(W)	1	1	1
Government owned	1 501 923	1 427 024	1 521 687	107 631	2	1	2	2
Privately owned	7 489 329	6 122 511	4 224 566	3 020 186	1	1	2	2

¹Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

²For 1967 and 1972, includes data for power, fuels, and lubricants.

³Data were collected only for establishments classified as heavy construction contractors.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1982 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1982	1977	1972	1967	Relative standard error of estimate (percent)			
					1982	1977	1972	1967
STRUCTURES, MACHINERY, AND EQUIPMENT								
Beginning-of-year gross book value of depreciable assets -----	1 451 107	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	112 910	185 249	132 865	72 914	2	2	3	2
New -----	78 949	151 063	108 644	59 495	2	2	3	2
Used -----	33 961	34 186	24 221	13 419	4	4	4	4
Retirements and disposition of depreciable assets -----	67 092	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	1 496 925	1 226 404	884 003	(NA)	1	1	3	(NA)
Depreciation charges during year -----	184 244	118 470	102 235	(NA)	2	1	5	(NA)
Structures, Additions, and Related Facilities								
Beginning-of-year gross book value of depreciable assets -----	219 554	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	15 606	26 274	23 853	10 891	4	11	13	6
New structures and related facilities -----	13 424	21 996	19 024	7 574	3	10	12	5
Used structures and related facilities -----	2 182	4 278	4 829	3 317	14	13	15	7
Retirements and disposition of depreciable assets -----	9 072	(NA)	(NA)	(NA)	8	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	226 087	226 312	170 048	(NA)	2	2	6	(NA)
Depreciation charges during year -----	19 425	11 134	12 271	(NA)	5	3	7	(NA)
Machinery and Equipment								
Beginning-of-year gross book value of depreciable assets -----	1 231 553	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	97 303	158 975	109 012	62 023	2	3	3	3
New machinery and equipment, including automobiles and trucks -----	65 524	129 067	89 620	51 921	2	2	3	2
New automobiles and trucks, intended primarily for highway use -----	27 861	55 002	(NA)	(NA)	3	4	(NA)	(NA)
Used machinery and equipment, including automobiles and trucks -----	31 778	29 908	19 392	10 102	4	4	3	4
Retirements and disposition of depreciable assets -----	58 019	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	1 270 837	1 000 091	713 955	(NA)	1	1	4	(NA)
Depreciation charges during year -----	164 818	107 335	89 964	(NA)	2	1	5	(NA)

Table 6. Value of Inventories for Establishments With Payroll: 1982 and 1981

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	13 953	1
Total construction receipts	8 991 253	(W)
Establishments with inventories:		
Number	3 974	5
Total construction receipts	3 916 186	1
Inventories¹:		
End of 1982, total	169 133	4
Value for establishments with LIFO reserve	10 080	2
Amount of LIFO reserve	2 658	5
Value for establishments with no LIFO reserve	159 053	4
End of 1981, total	154 618	3
Value for establishments with LIFO reserve	11 328	3
Amount of LIFO reserve	2 779	6
Value for establishments with no LIFO reserve	143 290	3
Establishments with no inventories:		
Number	9 979	1
Total construction receipts	5 075 067	1

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								1,000 employees or more
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	
1982										
Number of establishments -----	13 953	9 353	2 573	1 191	591	166	63	8	6	2
All employees** -----	105 675	18 063	16 685	15 795	17 330	10 938	9 203	2 464	15 196	(D)
Payroll, all employees -----	2 178 928	189 841	250 641	285 147	401 925	279 927	225 887	62 832	482 727	(D)
Construction worker hours (thousands) -----	131 628	19 414	17 218	17 225	21 055	15 026	12 809	3 327	25 550	(D)
All business receipts -----	9 301 645	951 873	1 010 630	1 108 391	2 635 379	(D)	3 595 371	(D)	(D)	(D)
Total construction receipts -----	8 991 253	930 375	980 890	1 082 890	1 491 141	1 081 299	724 826	278 750	2 421 081	(D)
Net construction receipts† -----	6 174 978	779 644	787 003	859 645	1 063 574	757 457	579 255	147 754	1 200 644	(D)
Value added†† -----	4 182 301	443 983	480 027	531 987	678 112	508 109	431 489	110 552	998 041	(D)
Payments for materials, components, supplies, and fuels... -----	2 286 295	350 821	329 844	352 801	421 204	273 339	558 285	(D)	(D)	(D)
Payments for construction work subcontracted to others... -----	2 816 275	150 730	193 887	223 244	427 567	323 842	145 571	130 996	1 220 437	(D)
Rental payments for machinery, equipment, and structures -----	108 006	11 086	13 213	15 747	19 120	18 569	11 452	5 060	13 758	(D)
Capital expenditures, other than land -----	112 910	15 283	18 893	17 379	21 738	19 580	9 681	3 734	6 620	(D)
End-of-year gross book value of depreciable assets -----	1 496 925	250 999	227 974	247 828	301 832	243 678	147 476	32 517	44 620	(D)
1977										
All employees** -----	128 198	21 310	19 643	20 588	25 746	14 146	9 459	9 569	(D)	7 736
Total construction receipts -----	7 549 535	1 092 854	958 013	1 094 617	1 612 878	930 474	580 039	627 030	(D)	653 630
Value added† -----	3 378 784	462 857	426 258	489 213	764 341	418 418	289 157	279 227	(D)	249 313
1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees** -----	1	2	3	3	2	(W)	(W)	(W)	(W)	-
Net construction receipts† -----	1	3	3	2	(W)	(W)	(W)	(W)	(W)	-
Capital expenditures, other than land -----	2	6	9	5	1	(W)	(W)	(W)	(W)	-

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

Table 8. Selected Statistics for Establishments With Payroll by Receipts Size Class: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with all business receipts of—									\$10,000,000 or more
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	
1982											
Number of establishments-----	13 953	2 036	1 738	2 610	3 407	1 821	1 112	724	270	145	88
All employees**-----	105 675	2 437	2 808	5 993	12 801	11 669	11 750	13 553	10 451	9 210	25 002
Payroll, all employees-----	2 178 928	7 661	17 728	48 568	145 897	174 733	215 873	303 358	254 399	253 909	756 800
Construction worker hours (thousands)-----	131 628	1 999	2 697	5 638	13 106	12 145	13 445	16 228	13 223	13 486	39 658
All business receipts-----	9 301 645	24 629	63 395	191 237	552 867	639 719	776 884	1 124 134	1 940 962	(D)	3 987 816
Total construction receipts-----	8 991 253	24 276	62 592	188 583	543 405	619 207	750 834	1 101 204	907 984	977 943	3 815 224
Net construction receipts†-----	6 174 978	21 694	57 542	173 739	488 792	537 556	634 154	874 772	704 711	668 264	2 013 752
Value added††-----	4 182 301	13 198	34 018	102 858	282 783	328 745	385 401	563 589	464 976	433 606	1 573 124
Payments for materials, components, supplies, and fuels-----	2 286 295	8 708	24 124	72 962	213 283	226 363	270 227	331 772	266 640	258 994	613 219
Payments for construction work subcontracted to others-----	2 816 275	2 582	5 050	14 843	54 612	81 650	116 680	226 431	203 273	309 679	1 801 472
Rental payments for machinery, equipment, and structures-----	108 006	426	655	2 057	7 052	9 392	11 331	17 117	11 691	18 399	29 884
Capital expenditures, other than land-----	112 910	313	1 255	3 991	10 171	10 074	14 843	18 229	15 080	12 475	26 475
End-of-year gross book value of depreciable assets-----	1 496 925	9 853	22 440	60 206	158 365	154 845	181 093	237 148	201 256	215 360	256 357
1977											
All employees**-----	128 198	(S)	3 734	7 606	17 683	15 484	15 981	21 677	13 404	130 469	(NA)
Total construction receipts-----	7 549 535	(S)	83 105	236 791	663 559	707 331	845 586	1 349 532	936 373	12 705 551	(NA)
Value added††-----	3 378 784	(S)	47 704	130 077	345 120	333 619	401 410	643 132	427 498	11 038 135	(NA)
1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**-----	1	4	5	5	3	4	3	1	(W)	(W)	(W)
Net construction receipts†-----	1	5	5	4	3	4	3	2	(W)	(W)	(W)
Capital expenditures, other than land-----	2	23	14	11	9	8	10	5	(W)	(W)	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

†Data for this size class includes establishments with receipts of \$10,000,000 or more, which were not tabulated separately in 1977.

Table 9. Construction Receipts for Establishments With Payroll by Type of Construction: 1982 and 1977

(Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes)

Type of construction	Construction receipts			Relative standard error of estimate (percent) for column—		
	Total	New construction ¹	Maintenance and repair			
	A	B	C	A	B	C
1982						
Total construction receipts†	8 991 253	7 122 935	1 868 318	(W)	(W)	1
Building construction	6 081 545	4 775 633	1 305 912	1	1	1
Single-family houses	982 719	661 206	321 513	2	3	3
Single-family houses, detached	876 191	574 134	302 056	3	3	3
Single-family houses, attached	106 527	87 071	19 456	5	6	9
Apartment buildings with two or more apartments	299 774	243 758	56 016	3	3	6
Other residential buildings	84 285	69 043	15 241	4	5	6
Office and bank buildings	863 256	612 269	250 987	1	2	1
Office buildings	763 162	538 164	224 997	1	2	1
Bank buildings and other financial institutions	100 094	74 104	25 989	4	6	4
Farm buildings	52 800	43 303	9 497	10	10	11
Industrial buildings and warehouses	2 289 369	1 927 053	362 316	1	1	2
Industrial buildings	2 127 267	1 788 117	339 150	1	1	2
Warehouses	162 101	138 935	23 166	3	3	4
Stores, restaurants, public garages, and automobile service stations	440 800	324 678	116 121	2	3	4
Religious buildings	88 215	62 428	25 787	3	4	3
Educational buildings	267 684	205 292	62 391	1	1	4
Hospitals and institutional buildings	533 310	463 136	70 174	1	1	4
Amusement, social, and recreational buildings	132 325	124 401	7 924	2	2	8
Other nonresidential buildings	47 008	39 066	7 945	5	4	11
Nonbuilding construction	2 445 604	1 975 173	470 431	1	(W)	1
Highways, streets, and related facilities	433 773	248 462	185 310	2	2	3
Bridges, tunnels, and elevated highways	97 029	87 552	9 476	1	1	1
Marine construction	43 606	29 518	14 088	2	2	(W)
Conservation and development construction	37 779	34 175	3 604	6	6	18
Power and communication transmission lines, towers, and related facilities	78 270	62 613	15 657	3	3	3
Sewers, water mains, and related facilities	258 195	216 953	41 241	3	3	3
Sewers, sewer lines, and related facilities	176 128	149 246	26 881	5	4	5
Water mains and related facilities	82 067	67 707	14 359	5	5	5
Pipeline, other than sewer or water lines	60 454	48 688	11 766	1	1	5
Sewage treatment and water treatment plants	149 597	129 069	20 528	2	2	4
Sewage treatment plants	119 394	107 767	11 626	2	2	8
Water treatment plants	30 203	21 301	8 901	1	2	1
Heavy industrial facilities	1 173 322	1 038 567	134 755	(W)	(W)	(W)
Blast furnaces, petroleum refineries, and chemical complexes	34 113	23 162	10 950	2	1	3
Power plants	1 139 209	1 015 404	123 804	(W)	(W)	(W)
Other nonbuilding construction	113 579	79 576	34 006	8	10	14
Construction work, n.s.k.	464 103	372 129	91 974	2	3	3
1977						
Total construction receipts†	7 549 535	6 214 567	1 334 969	1	1	1
Building construction	5 122 950	4 097 160	1 025 790	1	1	1
Single-family houses	1 582 619	1 231 907	350 712	2	2	3
Apartment buildings with two or more apartments	329 142	292 722	36 420	3	3	4
Other residential buildings	61 522	42 090	19 432	3	3	6
Office and bank buildings	400 936	317 389	83 547	1	1	2
Industrial buildings and warehouses	1 502 962	1 188 305	314 657	1	1	1
Stores, restaurants, public garages, and automobile service stations	351 058	276 404	74 654	2	2	3
Religious buildings	92 427	73 703	18 724	7	9	3
Educational buildings	288 516	239 459	49 057	1	1	4
Hospitals and institutional buildings	371 538	316 263	55 275	1	1	1
Other nonresidential buildings	142 231	118 920	23 311	4	4	9
Nonbuilding construction	2 026 910	1 772 731	254 179	1	1	1
Highways, streets, and related facilities	560 599	447 575	113 024	1	1	1
Bridges, tunnels, and elevated highways	87 100	65 838	21 262	1	(W)	2
Power and communication transmission lines, towers, and related facilities	75 817	66 023	9 794	3	3	8
Sewers, water mains, and related facilities	323 245	301 117	22 128	2	2	7
Sewage treatment and water treatment plants	147 390	143 649	3 741	1	1	15
Heavy industrial facilities	52 540	30 308	22 232	6	8	4
Power plants	533 565	514 949	18 616	(W)	(W)	1
Other nonbuilding construction	246 654	203 272	43 382	3	3	4
Construction work, n.s.k.	399 744	344 353	55 391	3	3	3

¹Includes data for work done as additions and alterations.

Table 10. Quarterly Construction Worker Hours and Employment for Establishments With

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction Industries and subdividers and developers	13 953	84 331	131 628	70 197	28 180	85 322	33 293
15,16, 17	Construction Industries:							
15	General building contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses	2 082	5 882	7 693	4 575	1 567	5 951	1 999
1522	Other residential buildings	186	994	1 404	950	319	960	353
1531	Operative builders	245	390	533	388	138	403	145
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses	328	3 283	5 554	2 930	1 327	3 152	1 268
1542	Nonresidential buildings, n.e.c.	652	4 758	8 298	4 135	1 906	4 843	2 142
16	Heavy construction general contractors:							
1611	Highway and street construction	345	4 363	8 094	1 739	911	4 811	2 090
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction	29	580	1 057	267	125	695	291
1623	Water, sewer, and utility lines	309	3 001	5 609	1 989	915	3 194	1 429
1629	Heavy construction, n.e.c.	202	11 084	22 130	10 734	5 376	11 188	5 603
17	Special trade contractors:							
1711	Plumbing, heating, and air conditioning	1 782	10 019	15 928	9 858	4 061	9 882	3 894
1721	Painting, paper hanging, and decorating	652	2 914	3 818	2 406	772	2 840	953
1731	Electrical work	1 293	8 574	13 044	8 400	3 180	8 662	3 352
174	Masonry, plastering, and tile setting:							
1741	Masonry, stone setting, and other stonework	673	2 582	2 776	1 610	467	2 543	699
1742	Plastering, drywall, and insulation work	541	3 093	4 316	2 940	1 038	3 018	1 088
1743	Terrazzo, tile, marble, and mosaic work	121	415	594	353	132	456	171
175	Carpentering and flooring:							
1751	Carpentering	907	2 652	3 362	2 108	695	2 627	848
1752	Floor laying and other floorwork	172	672	861	651	204	648	219
1761	Roofing and sheet metal work	692	5 099	7 049	3 940	1 365	4 855	1 660
1771	Concrete work	780	3 165	4 015	1 357	462	3 624	1 117
1781	Water well drilling	179	425	611	296	118	425	157
179	Miscellaneous special trade contractors:							
1791	Structural steel erection	106	2 325	2 957	2 269	789	2 098	687
1793	Glass and glazing work	144	840	1 350	762	311	830	339
1794	Excavating and foundation work	760	3 123	4 464	2 038	676	3 261	1 177
1795	Wrecking and demolition work	39	315	503	245	100	288	110
1796	Installing building equipment, n.e.c.	155	1 650	2 680	1 754	715	1 729	706
1799	Special trade contractors, n.e.c.	421	2 010	2 755	1 395	464	2 203	735
6552	Subdividers and developers, n.e.c.	82	117	160	100	37	128	47

¹Sum of construction workers during pay periods including 12th of March, May, August, and November.

Payroll by Industry: 1982

July to September		October to December		Relative standard error of estimate (percent) for column—										SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
92 442	37 139	82 881	33 014	1	1	1	1	1	1	1	1	1	1	15,16, 17
														15
6 533 938	2 218 342	5 446 1 097	1 907 388	4 7	4 7	5 6	6 7	4 6	5 7	4 7	5 8	5 10	6 11	152 1521 1522
324	130	344	119	12	14	12	18	13	20	13	20	13	20	1531
3 669 5 106	1 611 2 230	3 219 4 665	1 347 2 019	3 2	2 2	3 2	3 2	2 2	3 2	3 3	3 3	3 4	3 3	154 1541 1542
														16
6 040	3 014	4 744	2 078	2	2	2	2	2	2	2	2	2	2	1611
														162
914 3 430 11 506	442 1 665 5 719	409 3 277 10 785	199 1 598 5 431	1 3 1	(W) 2 (W)	1 4 1	2 3 1	1 3 1	1 3 1	1 4 1	1 3 1	1 4 1	1 3 1	1622 1623 1629
														17
10 082	4 018	9 658	3 953	2	2	3	3	2	2	2	2	2	3	1711
3 426	1 198	2 608	894	5	6	6	7	6	8	6	7	5	7	1721
8 661	3 365	8 064	3 146	2	2	2	2	2	2	2	2	2	2	1731
														174
3 019 3 246 407	855 1 162 161	2 713 2 904 370	753 1 027 129	5 4 11	5 4 12	6 4 12	9 5 18	6 4 12	8 5 16	5 5 11	7 6 17	5 7 10	7 8 16	1741 1742 1743
2 851 639	953 199	2 462 676	865 237	6 11	6 12	6 12	8 17	7 13	8 17	6 12	8 16	7 11	8 15	175 1751 1752
5 583	1 971	5 767	2 051	3	3	2	3	3	4	3	4	3	4	1761
4 191	1 459	3 059	975	5	5	5	9	7	8	6	7	6	6	1771
472	187	388	147	13	14	14	22	13	19	13	18	14	20	1781
														179
2 468 862 3 755 378 1 549 2 268	769 342 1 460 148 643 829	2 419 830 2 962 329 1 498 2 072	711 356 1 149 143 615 725	2 8 6 1 2 6	2 8 6 1 2 6	2 8 6 1 2 7	3 9 8 3 2 9	2 8 5 1 2 7	3 10 7 3 2 8	2 8 7 1 2 7	3 10 8 2 3 7	2 8 10 5 3 6	3 9 7 1 3 7	1791 1793 1794 1795 1796 1799
117	35	108	39	16	19	17	32	16	28	25	32	15	29	6552

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker (thousands)	Total construction receipts per employee (\$1,000)	Average per dollar of total construction receipts				
						Payroll, all employees	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Rental payments for machinery, equipment, and structures
	Construction industries and subdividers and developers -----	7.6	20.6	1.6	106.6	.242	.254	.313	.013	.012
15,16, 17	Construction Industries:									
15	General building contractors and operative builders:									
152	General contractors, residential buildings:									
1521	Single-family houses -----	3.5	11.9	1.3	79.0	.187	.372	.250	.011	.006
1522	Other residential buildings -----	7.0	17.9	1.4	170.5	.139	.203	.571	.009	.005
1531	Operative builders -----	3.2	17.7	1.4	244.9	.145	.277	.405	.012	.006
154	General contractors, nonresidential buildings:									
1541	Industrial buildings and warehouses -----	14.0	24.4	1.7	443.1	.077	.076	.712	.003	.003
1542	Nonresidential buildings, n.e.c. -----	9.9	21.9	1.7	225.1	.132	.138	.616	.007	.005
16	Heavy construction general contractors:									
1611	Highway and street construction -----	14.9	22.0	1.9	106.6	.243	.338	.196	.031	.024
162	Heavy construction, except highway:									
1622	Bridge, tunnel, and elevated highway construction -----	23.1	28.5	1.8	113.8	.289	.256	.219	.021	.013
1623	Water, sewer, and utility lines -----	12.0	22.0	1.9	98.0	.277	.261	.186	.029	.036
1629	Heavy construction, n.e.c. -----	68.2	31.4	2.0	111.3	.350	(D)	.278	.009	.015
17	Special trade contractors:									
1711	Plumbing, heating, and air conditioning -----	7.4	21.2	1.6	92.7	.301	.357	.166	.013	.011
1721	Painting, paper hanging, and decorating -----	5.2	13.8	1.3	39.4	.407	.219	.065	.018	.017
1731	Electrical work -----	8.3	22.6	1.5	85.9	.329	.408	.028	.012	.011
174	Masonry, plastering, and tile setting:									
1741	Masonry, stone setting, and other stonework -----	4.4	12.4	1.1	41.2	.344	.324	.057	.017	.016
1742	Plastering, drywall, and insulation work -----	6.8	19.2	1.4	61.4	.374	.355	.073	.009	.010
1743	Terrazzo, tile, marble, and mosaic work -----	4.3	18.2	1.4	68.6	.329	.413	.024	.008	.008
175	Carpentering and flooring:									
1751	Carpentering -----	3.5	13.8	1.3	58.6	.282	.365	.131	.011	.006
1752	Floor laying and other floorwork -----	5.1	15.1	1.3	58.5	.340	.399	.046	.008	.007
1761	Roofing and sheet metal work -----	9.1	18.6	1.4	77.6	.296	.372	.060	.016	.009
1771	Concrete work -----	4.7	14.5	1.3	59.3	.281	.392	.087	.020	.019
1781	Water well drilling -----	2.9	11.6	1.4	59.9	.239	.426	.014	.015	.009
179	Miscellaneous special trade contractors:									
1791	Structural steel erection -----	25.2	19.7	1.3	54.7	.414	.230	.120	.023	.038
1793	Glass and glazing work -----	8.0	18.8	1.6	89.8	.285	.517	.030	.009	.013
1794	Excavating and foundation work -----	4.9	15.6	1.4	71.3	.262	.253	.115	.041	.040
1795	Wrecking and demolition work -----	9.6	18.3	1.6	65.5	.333	.115	.088	.021	.054
1796	Installing building equipment, n.e.c. -----	13.3	26.2	1.6	111.8	.294	.116	.238	.008	.009
1799	Special trade contractors, n.e.c. -----	5.3	14.8	1.4	62.0	.310	(D)	.071	.022	.018
6552	Subdividers and developers, n.e.c. -----	3.8	14.2	1.4	107.5	.349	.259	.215	.052	.009

Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	DETROIT-ANN ARBOR SMSA											
	Construction Industries and subdividers and developers..	6 184	60 306	(D)	5 986 490	3 845 224	2 743 222	(D)	2 141 266	61 895	1	1
15,16,17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	705	2 883	42 037	230 876	166 524	91 411	79 594	64 352	2 582	7	5
1522	Other residential buildings	92	(S)	(S)	(S)	(S)	17 148	(D)	(S)	(S)	-	-
1531	Operative builders	121	413	8 339	50 891	25 639	15 818	(D)	25 252	700	11	10
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	160	2 567	71 851	(D)	301 059	242 364	(D)	(D)	4 071	3	1
1542	Nonresidential buildings, n.e.c.	292	3 365	85 335	710 366	(D)	173 057	70 017	(D)	4 997	3	-
16	Heavy construction general contractors:											
1611	Highway and street construction	134	2 771	64 240	265 120	212 272	138 800	(D)	52 848	(D)	3	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	16	(D)	16 272	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1623	Water, sewer, and utility lines	132	1 601	36 987	154 419	117 957	80 129	(D)	36 463	(D)	6	3
1629	Heavy construction, n.e.c.	66	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7 671	-	-
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning	851	6 694	155 574	520 579	423 803	271 439	(D)	96 776	6 204	3	2
1721	Painting, paper hanging, and decorating	318	1 792	27 102	64 612	61 307	47 877	13 885	3 305	1 067	6	5
1731	Electrical work	626	6 011	141 405	468 725	456 304	267 355	201 110	12 421	5 099	3	2
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework	281	1 465	20 139	56 396	52 461	36 985	(D)	3 935	702	6	6
1742	Plastering, drywall, and insulation work	203	1 717	36 064	87 847	82 681	56 664	(D)	5 166	360	6	5
1743	Terrazzo, tile, marble, and mosaic work	98	416	7 600	22 552	21 985	12 336	(D)	567	175	13	14
175	Carpentering and flooring:											
1751	Carpentering	458	1 847	28 313	94 180	80 570	49 573	31 572	13 610	1 151	8	7
1752	Floor laying and other floorwork	72	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1761	Roofing and sheet metal work	341	3 487	70 678	243 518	229 369	151 545	83 692	14 150	3 112	5	2
1771	Concrete work	430	2 119	34 009	117 939	107 242	68 302	41 875	10 697	2 262	7	7
1781	Water well drilling	37	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	44	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1793	Glass and glazing work	85	744	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10	-
1794	Excavating and foundation work	239	1 148	20 851	81 187	(D)	53 419	21 332	(D)	(D)	7	-
1795	Wrecking and demolition work	26	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1796	Installing building equipment, n.e.c.	87	1 478	39 793	143 393	101 697	88 523	13 777	41 696	(D)	2	-
1799	Special trade contractors, n.e.c.	242	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
6552	Subdividers and developers, n.e.c.	34	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
	ANN ARBOR SMSA											
	Construction Industries and subdividers and developers..	325	13 164	(D)	1 148 468	822 060	699 380	(D)	326 409	4 543	1	1
15,16,17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	34	82	1 290	6 591	4 827	2 821	2 207	1 764	18	24	29
1522	Other residential buildings	13	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-
1531	Operative builders	*6	*24	*351	1 539	*1 155	*896	(S)	384	-	59	55
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	*4	58	1 187	(D)	1 888	538	(D)	(D)	(S)	17	17
1542	Nonresidential buildings, n.e.c.	35	217	4 375	38 100	13 898	8 114	(D)	24 202	276	15	14

Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added‡	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	ANN ARBOR SMSA—Con.											
15,16,17	Construction Industries—Con.											
16	Heavy construction general contractors:											
1611	Highway and street construction -----	*6	*10	*227	*1 285	*1 076	*666	(D)	*209	(D)	45	51
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1623	Water, sewer, and utility lines-----	6	60	1 481	10 426	7 075	4 063	(D)	3 351	(D)	(W)	(W)
1629	Heavy construction, n.e.c.-----	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning-----	31	243	6 209	26 327	19 959	11 988	(D)	6 368	192	10	4
1721	Painting, paper hanging, and decorating-----	25	*119	*1 538	*3 463	*3 325	2 494	*839	*138	*63	46	43
1731	Electrical work-----	38	322	6 391	16 084	15 396	8 765	6 759	688	472	8	11
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework-----	*10	57	862	2 132	2 063	1 366	(D)	69	*110	18	34
1742	Plastering, drywall, and insulation work-----	*9	*107	*1 866	6 765	6 539	4 138	(D)	226	-	59	34
1743	Terrazzo, tile, marble, and mosaic work-----	*6	*20	*316	*825	*825	*520	*333	-	*20	50	54
175	Carpentering and flooring:											
1751	Carpentering-----	27	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-
1752	Floor laying and other floorwork-----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1761	Roofing and sheet metal work-----	15	123	2 346	7 586	7 354	3 444	3 911	232	*73	22	19
1771	Concrete work-----	*11	47	725	3 354	2 970	1 610	1 375	384	(S)	30	18
1781	Water well drilling-----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	*2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1793	Glass and glazing work-----	*9	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(S)	-	-
1794	Excavating and foundation work-----	*14	(S)	(S)	(S)	(D)	(S)	(S)	(D)	(D)	-	-
1795	Wrecking and demolition work-----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1796	Installing building equipment, n.e.c.-----	7	24	575	1 789	1 685	1 438	251	*104	(D)	4	8
1799	Special trade contractors, n.e.c.-----	*6	*7	(S)	*524	(D)	*347	*173	(D)	(D)	64	-
6552	Subdividers and developers, n.e.c.-----	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
	DETROIT SMSA											
	Construction Industries and subdividers and developers	5 859	47 142	1 000 445	4 838 022	3 023 164	2 043 842	1 053 336	1 814 858	57 352	1	1
15,16,17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses-----	671	2 801	40 747	224 285	161 697	88 590	77 388	62 588	2 565	7	5
1522	Other residential buildings-----	79	(S)	(S)	(S)	(S)	(S)	(D)	(S)	(S)	-	-
1531	Operative builders-----	115	389	7 988	49 352	24 484	14 923	10 816	24 868	700	11	9
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses-----	156	2 509	70 664	1 221 776	299 171	241 826	62 367	922 605	4 053	3	1
1542	Nonresidential buildings, n.e.c.-----	258	3 148	80 960	672 266	224 296	164 943	63 550	447 970	4 721	3	2
16	Heavy construction general contractors:											
1611	Highway and street construction-----	128	2 761	64 013	263 835	211 196	138 134	79 653	52 639	6 918	3	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	15	519	15 238	52 948	42 700	28 935	13 899	10 248	1 182	2	1
1623	Water, sewer, and utility lines-----	126	1 541	35 506	143 993	110 882	76 066	35 327	33 112	3 359	6	3
1629	Heavy construction, n.e.c.-----	60	1 096	27 976	92 738	76 355	51 717	25 305	16 383	(D)	2	2

Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.

Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	DETROIT SMSA—Con.											
15,16,17	Construction Industries—Con.											
17	Special trade contractors:											
711	Plumbing, heating, and air conditioning -----	820	6 451	149 365	494 252	403 844	259 451	155 806	90 408	6 013	3	2
721	Painting, paper hanging, and decorating -----	293	1 673	25 564	61 150	57 982	45 383	13 046	3 168	1 004	6	5
731	Electrical work -----	588	5 690	135 015	452 641	440 908	258 590	194 351	11 733	4 627	3	2
74	Masonry, plastering, and tile setting:											
741	Masonry, stone setting, and other stonework -----	271	1 408	19 278	54 264	50 398	35 619	15 077	3 866	592	7	6
742	Plastering, drywall, and insulation work -----	194	1 610	34 198	81 082	76 142	52 526	27 634	4 940	360	6	4
743	Terrazzo, tile, marble, and mosaic work -----	92	396	7 284	21 727	21 160	11 816	(D)	567	155	14	15
75	Carpentering and flooring:											
751	Carpentering -----	431	1 722	27 225	90 353	77 189	47 505	30 232	13 164	1 049	8	7
752	Floor laying and other floorwork -----	70	460	7 398	18 705	17 700	10 785	7 706	1 005	129	17	16
761	Roofing and sheet metal work -----	326	3 364	68 332	235 932	222 015	148 102	79 782	13 918	3 039	4	2
771	Concrete work -----	419	2 072	33 284	114 585	104 272	66 692	40 500	10 313	2 225	7	7
781	Water well drilling -----	35	97	1 351	5 261	5 190	3 172	2 281	71	(D)	25	27
79	Miscellaneous special trade contractors:											
791	Structural steel erection -----	42	2 107	42 221	95 881	84 169	66 425	18 414	11 713	2 208	1	2
793	Glass and glazing work -----	77	601	11 369	37 570	36 578	21 086	18 380	992	556	12	8
794	Excavating and foundation work -----	225	1 038	18 757	72 945	64 461	47 533	19 033	8 484	2 931	7	5
795	Wrecking and demolition work -----	25	250	4 943	14 547	13 060	12 587	1 596	1 487	243	2	1
796	Installing building equipment, n.e.c. -----	80	1 454	39 218	141 604	100 012	87 085	13 526	41 592	1 205	2	1
799	Special trade contractors, n.e.c. -----	236	1 444	23 524	73 617	67 812	45 080	24 834	5 805	1 508	7	7
852	Subdividers and developers, n.e.c. -----	31	83	1 443	4 230	3 301	2 778	1 026	929	120	21	29
	FLINT SMSA											
	Construction Industries and subdividers and developers	590	3 760	62 948	262 249	201 465	126 280	80 058	60 784	3 673	4	4
15,18,17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
521	Single-family houses -----	97	331	3 130	19 975	15 279	6 333	9 055	4 696	*430 (S)	21	29
522	Other residential buildings -----	5	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-
531	Operative builders -----	28	58	*515	*3 301	*2 703	*2 101	*644	*598	-	34	52
54	General contractors, nonresidential buildings:											
541	Industrial buildings and warehouses -----	11	301	4 379	38 407	18 259	12 488	5 863	20 148	(D) (S)	7	12
542	Nonresidential buildings, n.e.c. -----	29	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-
16	Heavy construction general contractors:											
1611	Highway and street construction -----	21	311	2 910	11 793	10 716	6 809	(D)	1 077	130	9	5
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1623	Water, sewer, and utility lines -----	9	108	2 112	6 289	(D)	3 513	2 271	(D)	(D)	19	-
1629	Heavy construction, n.e.c. -----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning -----	81	554	11 832	45 966	36 044	20 621	15 574	9 923	887	10	9
1721	Painting, paper hanging, and decorating -----	22	111	1 576	8 319	5 513	3 865	*1 648	*2 806	(S)	40	36
1731	Electrical work -----	49	364	9 007	25 308	24 913	17 886	7 728	395	174	8	4
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework -----	30	138	1 960	6 219	6 096	3 820	2 282	*123	82	23	16
1742	Plastering, drywall, and insulation work -----	29	186	3 248	11 057	9 833	5 830	(D)	1 224	*48	17	10
1743	Terrazzo, tile, marble, and mosaic work -----	*5	14	237	1 045	(D)	*653	392	(D)	-	17	-
175	Carpentering and flooring:											
1751	Carpentering -----	28	53	*478	*2 251	1 939	876	*1 064	*312	*104	33	40
1752	Floor laying and other floorwork -----	*19	43	*659	*2 177	*2 128	*1 423	*705	*49	*46	40	42
1761	Roofing and sheet metal work -----	22	396	9 639	30 468	27 136	16 833	(D)	3 332	637	4	3
1771	Concrete work -----	24	134	1 525	6 027	4 835	3 398	2 613	*1 192	135	24	21

Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	I
	FLINT SMSA—Con.											
15,16, 17	Construction Industries—Con.											
175	Special trade contractors—Con.											
1781	Carpentering and flooring—Con.											
	Water well drilling -----	5	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-	-
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	8	58	883	2 017	1 967	1 169	(D)	50	*92	17	12
1793	Glass and glazing work -----	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1794	Excavating and foundation work -----	35	120	1 012	4 054	3 895	2 922	1 132	*159	100	14	21
1795	Wrecking and demolition work -----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1796	Installing building equipment, n.e.c. -----	7	59	1 403	3 867	3 794	3 130	(D)	73	-	(W)	(W)
1799	Special trade contractors, n.e.c. -----	22	*121	791	2 487	2 353	1 599	(D)	134	*139	45	36
6552	Subdividers and developers, n.e.c. -----	-	-	-	-	-	-	-	-	-	-	-
	GRAND RAPIDS SMSA											
	Construction Industries and subdividers and developers	1 258	9 644	180 303	751 073	561 058	332 526	248 126	190 015	12 133	3	3
15,16, 17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	125	512	5 967	33 164	22 382	12 527	11 332	10 782	394	14	14
1522	Other residential buildings -----	16	218	5 000	34 542	16 596	9 142	(D)	17 946	*328	9	6
1531	Operative builders -----	30	93	1 559	13 350	10 101	6 571	3 554	3 249	*135	28	26
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	38	422	9 084	49 776	25 396	12 822	12 974	24 380	145	7	6
1542	Nonresidential buildings, n.e.c. -----	59	729	14 744	107 376	47 810	25 420	25 374	59 566	721	8	6
16	Heavy construction general contractors:											
1611	Highway and street construction -----	33	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1623	Water, sewer, and utility lines -----	36	431	11 591	38 651	34 572	21 874	13 555	4 079	*1 829	10	13
1629	Heavy construction, n.e.c. -----	17	256	5 396	(D)	13 612	7 095	6 629	(D)	283	6	5
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning -----	164	1 619	33 955	123 539	101 836	51 806	54 134	21 703	1 427	6	4
1721	Painting, paper hanging, and decorating -----	78	467	4 777	12 044	11 835	8 876	3 052	209	282	19	19
1731	Electrical work -----	111	803	16 606	51 077	49 692	28 286	22 039	1 385	713	9	6
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework -----	85	523	5 134	14 310	13 541	8 571	(D)	769	325	19	10
1742	Plastering, drywall, and insulation work -----	66	556	10 749	32 276	29 949	18 797	12 894	2 327	501	17	11
1743	Terrazzo, tile, marble, and mosaic work -----	*7	*24	*282	*1 185	*1 169	*608	*561	(S)	*18	59	60
175	Carpentering and flooring:											
1751	Carpentering -----	55	188	3 009	9 348	8 160	5 167	(D)	1 189	*54	17	21
1752	Floor laying and other floorwork -----	25	130	2 121	7 859	7 580	4 651	2 929	280	(D)	20	13
1761	Roofing and sheet metal work -----	62	625	11 211	37 463	35 756	21 123	(D)	1 707	*670	9	9
1771	Concrete work -----	84	455	6 569	24 782	23 686	12 732	(D)	1 096	319	10	12
1781	Water well drilling -----	*10	*20	(S)	*1 775	*1 765	*830	*935	(S)	(S)	71	57
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	7	73	1 596	4 611	4 483	3 112	1 374	128	*30	27	14
1793	Glass and glazing work -----	8	52	878	2 978	(D)	1 513	1 485	(D)	(D)	27	-
1794	Excavating and foundation work -----	53	351	6 139	30 087	23 918	18 414	6 067	6 169	937	16	12
1795	Wrecking and demolition work -----	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1796	Installing building equipment, n.e.c. -----	18	231	7 107	18 088	17 038	14 526	(D)	1 050	(D)	2	1
1799	Special trade contractors, n.e.c. -----	51	322	4 457	17 606	16 948	11 440	6 605	658	363	20	26
6552	Subdividers and developers, n.e.c. -----	*19	*41	*433	*1 496	*1 346	*1 059	*509	*150	(S)	42	47

Table 12. **Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	TOLEDO, OHIO-MICH., SMSA											
	Construction Industries and subdividers and developers..	1 201	10 102	226 802	847 581	588 239	369 332	236 308	259 343	14 282	2	2
15, 16, 17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	184	492	6 042	34 705	22 610	10 375	12 741	12 095	503	16	14
1522	Other residential buildings	18	101	1 417	6 813	3 797	2 286	1 949	3 016	*413	8	14
1531	Operative builders	19	57	1 034	7 576	5 603	3 417	*2 595	1 973	(D)	35	36
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	25	663	18 354	120 760	(D)	(D)	16 818	(D)	1 187	5	-
1542	Nonresidential buildings, n.e.c.	53	898	21 463	148 470	83 476	60 696	(D)	64 994	871	3	2
16	Heavy construction general contractors:											
1611	Highway and street construction	27	365	10 380	42 993	36 116	19 667	(D)	6 877	2 414	9	4
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1623	Water, sewer, and utility lines	26	849	22 189	57 990	52 167	40 356	(D)	5 823	3 283	3	3
1629	Heavy construction, n.e.c.	23	610	13 525	47 709	42 388	28 606	14 423	5 322	(D)	5	11
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning	180	1 828	44 143	130 285	109 542	74 906	36 078	20 744	841	5	4
1721	Painting, paper hanging, and decorating	56	241	3 543	8 035	7 875	5 619	(D)	160	49	19	13
1731	Electrical work	108	1 163	32 129	83 051	79 194	50 955	28 603	3 857	866	6	4
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework	51	326	5 875	15 768	15 306	9 723	5 761	462	51	14	9
1742	Plastering, drywall, and insulation work	33	369	8 299	21 262	20 492	13 313	(D)	770	86	9	8
1743	Terrazzo, tile, marble, and mosaic work	*7	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-
175	Carpentering and flooring:											
1751	Carpentering	77	308	3 851	12 715	11 560	6 906	4 732	1 155	*90	21	19
1752	Floor laying and other floorwork	25	130	2 166	8 144	8 049	4 232	3 908	95	*44	19	18
1761	Roofing and sheet metal work	74	724	14 446	43 973	42 149	23 562	20 625	1 825	*1 025	9	8
1771	Concrete work	74	308	5 381	19 753	18 730	11 131	7 828	1 024	373	15	14
1781	Water well drilling	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	*7	60	(D)	3 449	3 373	1 928	1 445	76	*49	15	13
1793	Glass and glazing work	*12	53	675	2 340	(D)	774	1 324	(D)	37	33	-
1794	Excavating and foundation work	46	219	3 635	10 274	9 421	6 978	(D)	853	324	13	9
1795	Wrecking and demolition work	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1796	Installing building equipment, n.e.c.	10	78	2 062	6 158	5 984	5 247	(D)	174	87	9	17
1799	Special trade contractors, n.e.c.	46	143	1 929	6 312	6 127	4 098	2 624	185	124	20	16
6552	Subdividers and developers, n.e.c.	15	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-



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SUMMARY OF FINDINGS

During 1982, 57,139 establishments in Ohio operated primarily as general contractors or operative builders, special trade contractors, or subdividers and developers. These establishments had business receipts of \$11.9 billion.

Tables 1 and 2 of this report provide summary statistics for all establishments, establishments with paid employees, and for those with no payroll.

The 39,061 establishments in this State with no payroll accounted for about 10 percent of all business receipts for all construction establishments in Ohio. On the other hand, 18,078 establishments classified as "employers" accounted for 90 percent of all business receipts.

Tables 3 through 12 in this report provide considerably more detailed information for employers. In 1982, all business receipts for these establishments amounted to \$10.7 billion, of which \$10.4 billion were receipts for construction work. These establishments paid \$2.6 billion for construction work subcontracted to others, leaving net construction receipts of about \$7.8 billion. Value added for these establishments amounted to \$4.9 billion. (See Introduction and appendixes for explanation of terms.)

Construction establishments with payroll located in Ohio paid \$2.9 billion for materials, components, and supplies purchased for use in construction work for others; purchased and subsequently provided to subcontractors for their use; purchased and then resold to others; and purchased and used in construction work for own account. However, materials furnished to contractors by owners of projects are not included. Payments of \$194

million were also made for selected power, fuels, and lubricants purchased during the year from other companies or received from other establishments of the parent company.

Average employment during 1982 for construction establishments with payroll in Ohio was 152 thousand employees. Hours worked by construction workers during the first quarter of 1982 were 38.5 million hours, while hours worked during the third quarter were 52.3 million hours.

Total payroll for 1982 was \$2.9 billion. Payments of \$552 million for employer costs for fringe benefits (not included in payroll) represent such expenditures during the year as employers' Social Security contributions, unemployment compensation, pension plans, and welfare plans.

The 1982 estimates for establishments with payroll are based on a probability sample of about 172,000 construction establishments in the United States. The estimates for Ohio are based on a sample of about 7,300 of these establishments. Statistics for the nonemployers were based on administrative records of the Federal Government.

The statistics reported by each establishment cover all of its activities, not just construction. Therefore, aggregates of such data for a State reflect not only the primary construction activities of the establishments in the State, but also their secondary construction activities, and any nonconstruction activities.

All data shown are based on current dollars for the years specified and have not been adjusted for price changes or for inflation between 1977 and 1982.

Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent for column--	
		Number	Proprietors and working partners	All employees**	All business receipts	Number	Proprietors and working partners	All business receipts	Number	Proprietors and working partners	All employees**	All business receipts		
		A	B	C	D	E	F	G	H	I	J	K	J	I
	1982													
	Construction Industries and subdividers and developers-----	57 139	45 618	151 902	11 915 940	39 061	39 074	1 214 843	18 078	6 544	151 902	10 701 097	1	
15,16, 17	Construction Industries¹-----	56 527	45 094	151 237	11 768 517	38 586	38 592	1 117 733	17 941	6 502	151 237	10 650 784	1	(W)
15	General building contractors and operative builders-----	14 120	10 826	32 892	4 144 354	9 468	9 303	434 897	4 652	1 523	32 892	3 709 457	1	
16	Heavy construction, general contractors _	2 111	1 275	32 102	2 223 929	1 080	1 073	92 693	1 031	202	32 102	2 131 236	1	
17	Special trade contractors-----	40 296	32 993	86 243	5 400 234	28 038	28 216	590 143	12 258	4 777	86 243	4 810 091	1	
1711	Plumbing, heating, and air conditioning----	4 930	3 183	21 071	1 443 205	2 425	2 430	85 357	2 505	753	21 071	1 357 848	1	
1731	Electrical work-----	3 630	2 710	13 140	877 105	2 334	2 322	55 306	1 296	388	13 140	821 799	1	
6552	Subdividers and developers, n.e.c.²-----	603	519	659	147 415	475	482	97 110	128	37	659	50 305	6	
	1977													
	Construction Industries and subdividers and developers-----	54 815	46 347	180 454	10 724 621	34 063	34 637	831 455	20 752	11 710	180 454	9 893 166	1	
15,16, 17	Construction Industries¹-----	54 157	45 751	179 442	10 531 964	33 595	34 094	745 904	20 562	11 657	179 442	9 786 060	1	
15	General building contractors and operative builders-----	12 703	9 751	48 476	4 294 293	6 278	6 273	322 879	6 425	3 478	48 476	3 971 414	1	
16	Heavy construction, general contractors _	2 296	1 517	33 492	1 985 545	1 102	1 103	32 865	1 194	414	33 492	1 952 680	1	(W)
17	Special trade contractors-----	39 158	34 483	97 474	4 252 126	26 215	26 718	390 160	12 943	7 765	97 474	3 861 966	1	
1711	Plumbing, heating, and air conditioning----	5 070	3 710	22 725	1 200 479	2 457	2 493	66 709	2 613	1 217	22 725	1 133 770	2	
1731	Electrical work-----	3 248	2 609	13 968	631 536	1 861	1 865	30 435	1 387	744	13 968	601 101	2	
6552	Subdividers and developers, n.e.c.²-----	664	596	1 013	192 661	468	543	85 551	196	53	1 013	107 110	11	13

¹For establishments without payroll, may also include data for construction establishments not classified to two-digit industry detail.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. **Summary Statistics for Establishments With and Without Payroll by Receipts Size**
Class: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	All business receipts	Number	Proprietors and working partners	All business receipts	Number	Proprietors and working partners	All employees**	All business receipts		
	A	B	C	D	E	F	G	H	I	J	K	J	K
1982													
The State -----	57 139	45 618	151 902	11 915 940	39 061	39 074	1 214 843	18 078	6 544	151 902	10 701 097	1	1
\$10,000,000 or more -----	139	8	35 855	3 650 949	5	8	115 487	134	—	35 855	3 535 462	(W)	(W)
\$5,000,000 to \$9,999,999 -----	174	5	12 814	(D)	2	2	(D)	172	3	12 814	1 166 213	(W)	(W)
\$2,500,000 to \$4,999,999 -----	407	19	15 167	2 600 020	14	11	59 598	393	8	15 167	1 374 209	(W)	(W)
\$1,000,000 to \$2,499,999 -----	1 096	53	23 342	1 726 961	39	36	59 813	1 057	17	23 342	1 667 148	1	2
\$500,000 to \$999,999 -----	1 633	192	17 757	1 143 311	104	81	72 923	1 529	111	17 757	1 070 388	3	3
\$250,000 to \$499,999 -----	2 678	774	16 575	933 097	277	266	93 809	2 401	508	16 575	839 288	3	3
\$100,000 to \$249,999 -----	5 724	3 161	16 607	900 183	1 390	1 391	204 888	4 334	1 770	16 607	695 295	3	3
\$50,000 to \$99,999 -----	6 392	4 847	7 371	451 426	3 049	3 140	208 567	3 343	1 707	7 371	242 859	4	3
\$25,000 to \$49,999 -----	7 367	6 339	3 419	260 297	5 179	5 249	179 500	2 188	1 090	3 419	80 797	5	4
Less than \$25,000 -----	31 528	30 217	2 991	249 694	29 002	28 890	220 258	2 526	1 327	2 991	29 436	3	3
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	9 340	9 303	146 565	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	6 971	6 949	47 307	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	7 295	7 272	20 990	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000 -----	(NA)	(NA)	(NA)	(NA)	5 396	5 366	5 396	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1977													
The State -----	54 815	46 347	180 454	10 724 621	34 063	34 637	831 455	20 752	11 710	180 454	9 893 166	1	1
\$10,000,000 or more -----	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000,000 to \$9,999,999 ² -----	270	11	45 883	3 640 391	3	4	20 632	267	7	45 883	3 619 759	(W)	(W)
\$2,500,000 to \$4,999,999 -----	386	44	17 943	1 333 216	10	10	32 374	376	34	17 943	1 300 842	(W)	(W)
\$1,000,000 to \$2,499,999 -----	1 129	143	28 028	1 721 957	40	34	58 610	1 089	109	28 028	1 663 347	1	1
\$500,000 to \$999,999 -----	1 721	449	22 218	1 188 822	120	122	81 796	1 601	327	22 218	1 107 026	1	2
\$250,000 to \$499,999 -----	2 853	1 028	21 471	995 227	223	200	78 085	2 630	828	21 471	919 142	2	3
\$100,000 to \$249,999 -----	6 121	3 989	25 303	959 563	794	814	119 018	5 327	3 175	25 303	840 545	4	3
\$50,000 to \$99,999 -----	5 967	5 054	11 201	424 197	1 713	1 871	115 736	4 254	3 183	11 201	308 461	5	4
\$25,000 to \$49,999 -----	6 323	5 946	5 066	226 016	3 611	3 792	124 829	2 712	2 154	5 066	101 187	6	6
Less than \$25,000 -----	30 045	29 683	(S)	235 233	27 549	27 790	202 375	(S)	(S)	(S)	(S)	—	—
\$10,000 to \$24,999 -----	10 180	9 918	2 284	159 883	8 586	8 764	131 632	1 594	1 154	2 284	28 251	9	8
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	6 843	6 875	46 581	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	7 137	7 169	20 460	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500 -----	(NA)	(NA)	(NA)	(NA)	4 983	4 982	3 702	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²Data for this size class includes establishments with receipts of \$10,000,000 or more, which were not tabulated separately.

Table 3. General Statistics for Establishments With Payroll by Industry: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1982							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Total construction receipts	Net construction receipts†
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
	Construction industries and subdividers and developers -----	18 078	151 902	121 582	2 902 090	2 210 000	184 687	10 360 020	7 792 679
15,16, 17	Construction industries:								
15	General building contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	2 716	10 127	8 223	120 117	90 845	11 492	678 143	484 556
1522	Other residential buildings -----	246	1 463	1 141	22 117	15 382	1 837	153 066	74 527
1531	Operative builders -----	385	2 091	1 233	34 974	18 367	1 877	1294 077	163 421
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	400	7 384	4 949	181 229	105 094	8 102	822 126	383 213
1542	Nonresidential buildings, n.e.c. -----	905	11 827	8 817	251 112	177 705	14 553	1 628 658	632 443
16	Heavy construction general contractors:								
1611	Highway and street construction -----	416	6 786	5 539	154 216	118 845	9 341	683 065	573 905
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	43	1 324	1 103	30 301	25 191	1 823	104 484	85 926
1623	Water, sewer, and utility lines -----	323	6 646	5 683	134 444	111 019	9 798	384 650	331 590
1629	Heavy construction, n.e.c. -----	249	17 346	14 392	348 674	267 958	18 713	876 804	706 062
17	Special trade contractors:								
1711	Plumbing, heating, and air conditioning -----	2 505	21 071	15 882	450 236	342 638	25 985	1 334 521	1 168 784
1721	Painting, paper hanging, and decorating -----	1 097	5 116	4 479	70 350	59 398	5 838	168 199	159 902
1731	Electrical work -----	1 296	13 140	10 476	303 190	235 437	17 353	799 768	776 131
174	Masonry, plastering, and tile setting:								
1741	Masonry, stone setting, and other stonework -----	998	4 532	4 020	63 595	55 959	5 180	172 837	164 788
1742	Plastering, drywall, and insulation work -----	607	5 952	5 021	103 636	84 454	7 722	270 288	258 635
1743	Terrazzo, tile, marble, and mosaic work -----	76	481	385	8 880	7 049	562	23 153	22 470
175	Carpentering and flooring:								
1751	Carpentering -----	1 193	4 250	3 650	55 048	46 657	5 134	196 012	168 561
1752	Floor laying and other floorwork -----	266	1 211	948	18 243	12 475	1 331	61 948	60 010
1761	Roofing and sheet metal work -----	1 047	8 134	6 672	147 245	115 973	10 099	454 297	422 832
1771	Concrete work -----	1 002	6 342	5 470	98 822	83 117	7 550	323 616	295 625
1781	Water well drilling -----	109	427	347	6 877	5 057	652	24 627	24 196
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	138	2 371	2 009	57 805	48 456	3 135	141 943	129 353
1793	Glass and glazing work -----	147	1 081	779	21 715	15 128	1 274	72 334	70 175
1794	Excavating and foundation work -----	957	5 533	4 658	95 552	77 449	7 189	325 564	294 860
1795	Wrecking and demolition work -----	40	402	352	7 075	5 780	447	20 590	17 490
1796	Installing building equipment, n.e.c. -----	174	2 645	2 158	56 910	44 399	3 033	144 078	138 578
1799	Special trade contractors, n.e.c. -----	606	3 555	2 913	50 465	37 648	4 174	169 884	160 047
6552	Subdividers and developers, n.e.c. -----	128	659	274	9 255	2 512	480	131 281	24 594

†Land receipts for SIC 1531 were \$42,813; for SIC 6552 were \$16,651.

1982—Con.						1977			Relative standard error of estimate (percent) for column—			SIC code
Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Rental payments for machinery, equipment, and structures	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
4 948 283	3 126 008	2 567 341	135 502	154 890	1 939 966	180 454	9 530 951	4 393 828	1	1	2	15,16, 17
												15
268 831	229 299	193 586	4 674	7 478	81 236	16 998	843 198	293 658	3	3	6	152
43 321	37 873	78 539	577	1 632	15 196	1 776	159 229	35 985	5	5	14	1521
												1522
81 788	87 976	130 656	1 379	2 213	83 938	6 656	786 959	198 463	6	5	7	1531
269 223	164 400	438 913	9 667	11 541	78 134	9 428	677 052	257 253	2	2	3	154
372 634	273 388	996 214	10 202	12 531	187 409	13 618	1 337 424	314 436	1	1	2	1541
												1542
												16
295 860	303 784	109 160	13 350	15 430	266 276	8 896	615 924	282 818	2	1	2	1611
55 415	30 731	18 558	3 074	3 066	34 769	1 956	112 913	58 684	(W)	(W)	(W)	162
242 828	95 860	53 060	12 223	15 184	162 078	7 406	398 148	245 276	2	1	1	1622
529 843	225 393	170 741	12 236	11 455	132 848	15 234	751 812	453 095	1	1	2	1623
												1629
												17
738 110	454 001	165 737	15 467	14 699	185 240	22 725	1 120 852	572 207	1	1	2	1711
122 101	38 712	8 297	2 082	3 186	26 431	5 830	141 799	108 302	4	3	7	1721
475 749	322 412	23 637	7 514	7 743	101 327	13 968	595 561	363 524	1	1	3	1731
110 049	55 563	8 049	2 143	2 125	39 891	7 661	208 262	137 307	4	3	10	174
178 959	90 421	11 653	2 645	2 288	28 161	7 734	242 581	147 803	3	2	6	1741
13 105	9 401	683	128	119	1 672	466	19 411	11 482	13	10	8	1742
												1743
102 392	67 942	27 451	1 334	1 641	25 936	5 780	150 832	90 699	5	4	11	175
34 218	28 776	1 938	798	643	5 571	1 816	66 064	36 517	7	7	15	1751
												1752
248 238	182 725	31 465	5 192	8 284	63 971	8 596	333 355	190 980	3	2	5	1761
177 148	122 489	27 991	6 014	4 541	77 113	6 419	226 460	120 586	3	3	6	1771
16 012	9 344	430	214	563	13 206	524	21 773	12 070	14	11	13	1781
78 589	53 227	12 590	4 533	2 496	32 525	2 313	99 076	64 220	4	3	3	179
39 253	34 923	2 159	941	444	5 711	1 066	44 465	23 686	7	6	8	1791
208 368	98 614	30 704	14 194	15 880	207 565	5 577	240 521	165 639	4	4	5	1793
16 220	2 566	3 100	845	834	12 712	511	13 387	11 930	7	3	(W)	1794
107 364	34 628	5 500	1 285	2 525	23 490	1 961	93 200	66 327	2	2	7	1795
101 476	65 763	9 837	2 446	5 455	31 262	4 527	165 760	103 435	5	4	14	1796
												1799
21 177	5 788	6 687	334	887	16 287	1 013	64 936	27 453	6	7	11	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1982 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see Introductory text. For explanation of terms, see appendixes]

Item	1982	1977	1972	1967	Relative standard error of estimate (percent)			
					1982	1977	1972	1967
Number of establishments in business during year	18 078	20 752	19 843	17 577	1	2	2	2
Number of establishments in business at end of year	17 632	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Proprietors and working partners	6 544	11 710	11 958	12 226	3	3	3	3
All employees**	151 902	180 454	180 537	162 545	1	1	1	1
Construction workers:								
March	102 185	120 747	122 528	118 577	1	1	1	1
May	123 536	152 756	146 523	128 492	1	1	1	1
August	132 469	166 500	169 291	159 653	1	1	1	1
November	120 012	156 233	152 558	142 997	1	1	1	1
Average	121 582	149 199	149 576	139 229	1	1	1	1
Other employees:								
March	30 134	30 086	29 551	22 845	1	1	2	1
Construction worker hours (thousands):								
January to March	38 545	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
April to June	47 167	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
July to September	52 332	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
October to December	46 643	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Total hours worked	184 687	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Payroll, all employees	2 902 090	2 595 614	1 978 636	1 319 447	(W)	(W)	1	1
Payroll, construction workers	2 210 000	2 049 643	1 595 501	1 089 014	(W)	(W)	1	1
Payroll, other employees	692 090	545 971	383 135	230 615	(W)	1	2	1
First quarter payroll, all employees	610 977	478 812	(NA)	(NA)	1	(W)	(NA)	(NA)
Employer costs for fringe benefits:								
Legally required expenditures	551 765	508 952	(NA)	(NA)	1	(W)	(NA)	(NA)
Voluntary expenditures	385 737	272 853	(NA)	(NA)	1	(W)	(NA)	(NA)
Total	166 027	236 099	(NA)	(NA)	1	(W)	(NA)	(NA)
All business receipts	10 701 097	9 893 166	7 185 627	4 849 420	1	1	1	1
Total construction receipts	10 360 020	9 530 951	6 968 246	4 684 201	1	1	1	1
Receipts for work subcontracted in from others	2 376 619	2 094 606	1 501 325	915 340	1	1	1	2
Land receipts ¹	59 464	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
Other business receipts	281 612	362 216	217 381	165 569	1	1	11	3
Net construction receipts†	7 792 679	7 384 737	5 145 634	3 529 794	1	1	1	1
Value added††	4 948 283	4 393 828	3 110 980	2 208 024	(W)	(W)	1	2
Selected payments	5 693 350	5 377 010	3 988 695	2 598 162	1	1	1	1
Materials, components, and supplies ²	2 932 454	3 080 198	2 166 083	1 443 993	1	1	2	1
Construction work subcontracted to others	2 567 341	2 146 214	1 822 612	1 154 498	1	1	2	2
Selected power, fuels, and lubricants	193 554	150 598	(NA)	(NA)	1	1	(NA)	(NA)
Electricity	25 428	18 551	(NA)	(NA)	1	1	(NA)	(NA)
Natural gas	11 652	9 691	(NA)	(NA)	2	2	(NA)	(NA)
Gasoline and diesel fuel (including gasohol)	142 730	103 260	(NA)	(NA)	1	1	(NA)	(NA)
Other, including lubricating oils and greases	13 743	19 102	(NA)	(NA)	2	2	(NA)	(NA)
Storage capacity for fuels (thousand gallons) ³	3 107	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Rental payments for machinery, equipment, and structures	135 502	116 771	(NA)	(NA)	1	1	(NA)	(NA)
For machinery and equipment	95 172	92 367	89 077	49 837	1	1	3	2
For structures	40 329	24 404	(NA)	(NA)	2	1	(NA)	(NA)
Selected purchased services	164 574	155 797	(NA)	(NA)	1	1	(NA)	(NA)
Communication services	48 964	39 079	(NA)	(NA)	1	1	(NA)	(NA)
Repairs to structures and related facilities	10 662	8 651	(NA)	(NA)	2	3	(NA)	(NA)
Repairs to machinery and equipment	104 948	108 068	(NA)	(NA)	1	1	(NA)	(NA)
Ownership of construction projects:								
Total construction receipts	10 360 020	9 530 951	6 968 246	4 684 201	1	1	1	1
Government owned	2 249 975	2 014 716	1 857 456	1 225 605	1	1	2	2
Privately owned	8 110 044	7 516 235	5 110 790	3 458 596	1	1	1	2

¹Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

²For 1967 and 1972, includes data for power, fuels, and lubricants.

³Data were collected only for establishments classified as heavy construction contractors.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1982 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1982	1977	1972	1967	Relative standard error of estimate (percent)			
					1982	1977	1972	1967
STRUCTURES, MACHINERY, AND EQUIPMENT								
Beginning-of-year gross book value of depreciable assets -----	1 868 983	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	154 890	226 046	163 124	114 274	2	2	9	3
New -----	111 541	178 102	132 920	95 282	2	2	11	3
Used -----	43 349	47 944	30 204	18 992	3	4	4	10
Retirements and disposition of depreciable assets -----	83 907	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	1 939 966	1 518 269	1 005 447	(NA)	1	1	3	(NA)
Depreciation charges during year -----	221 105	135 062	106 647	(NA)	1	1	9	(NA)
Structures, Additions, and Related Facilities								
Beginning-of-year gross book value of depreciable assets -----	333 964	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	24 093	35 010	53 430	46 938	3	9	20	9
New structures and related facilities -----	17 853	30 605	47 404	42 098	4	12	31	6
Used structures and related facilities -----	6 240	4 405	6 026	4 840	7	7	10	13
Retirements and disposition of depreciable assets -----	14 323	(NA)	(NA)	(NA)	6	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	343 734	379 869	261 586	(NA)	2	3	6	(NA)
Depreciation charges during year -----	28 121	15 935	14 065	(NA)	3	5	7	(NA)
Machinery and Equipment								
Beginning-of-year gross book value of depreciable assets -----	1 535 018	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	130 797	191 036	109 694	67 336	2	2	3	6
New machinery and equipment, including automobiles and trucks -----	93 688	147 497	85 516	53 184	2	1	2	2
New automobiles and trucks, intended primarily for highway use -----	37 207	61 594	(NA)	(NA)	3	2	(NA)	(NA)
Used machinery and equipment, including automobiles and trucks -----	37 109	43 539	24 178	14 152	4	4	4	11
Retirements and disposition of depreciable assets -----	69 584	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	1 596 232	1 138 400	743 861	(NA)	1	1	3	(NA)
Depreciation charges during year -----	192 983	119 127	92 582	(NA)	1	1	10	(NA)

Table 6. Value of Inventories for Establishments With Payroll: 1982 and 1981

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	18 078	1
Total construction receipts	10 360 020	1
Establishments with inventories:		
Number	5 599	4
Total construction receipts	4 867 904	1
Inventories¹:		
End of 1982, total	263 811	3
Value for establishments with LIFO reserve	11 253	6
Amount of LIFO reserve	4 116	15
Value for establishments with no LIFO reserve	252 558	3
End of 1981, total	218 769	4
Value for establishments with LIFO reserve	11 160	5
Amount of LIFO reserve	3 669	12
Value for establishments with no LIFO reserve	207 609	4
Establishments with no inventories:		
Number	12 479	1
Total construction receipts	5 492 116	1

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—									1,000 employees or more
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees		
1982											
Number of establishments -----	18 078	11 717	3 265	1 760	977	223	100	25	7		
All employees** -----	151 902	22 935	21 146	23 517	28 865	14 948	15 314	8 081	17 095	(D)	
Payroll, all employees -----	2 902 090	244 258	304 832	429 950	628 925	364 612	396 073	203 213	78 307	251 920	
Construction worker hours (thousands) -----	184 687	26 101	24 650	27 320	36 371	19 896	21 890	11 926	16 530	(D)	
All business receipts -----	10 701 097	1 164 587	1 160 518	1 605 757	2 234 859	2 902 757	(D)	1 632 639	(D)	(D)	
Total construction receipts -----	10 360 020	1 133 058	1 128 914	1 563 058	2 168 475	1 352 905	1 483 982	758 368	188 853	582 406	
Net construction receipts† -----	7 792 679	939 483	941 856	1 224 718	1 699 466	987 182	887 178	688 712	(D)	424 083	
Value added†† -----	4 948 283	541 280	566 194	759 275	1 075 478	633 328	506 460	330 863	127 560	407 843	
Payments for materials, components, supplies, and fuels -----	3 126 008	414 607	400 035	497 703	671 087	395 286	397 747	220 252	129 289	(D)	
Payments for construction work subcontracted to others -----	2 567 341	193 575	187 058	338 340	469 009	365 723	596 804	258 509	(D)	158 323	
Rental payments for machinery, equipment, and structures -----	135 502	12 001	16 242	21 333	29 202	17 513	21 615	8 424	1 809	7 361	
Capital expenditures, other than land -----	154 890	20 294	21 245	22 390	31 518	19 391	19 681	10 946	9 424	(D)	
End-of-year gross book value of depreciable assets -----	1 939 966	286 109	253 742	305 417	386 859	226 922	265 075	134 602	39 427	41 813	
1977											
All employees** -----	180 454	25 766	28 031	29 234	35 408	19 820	14 560	14 164	3 935	9 538	
Total construction receipts -----	9 530 951	1 171 331	1 144 230	1 376 892	2 028 766	1 195 187	1 088 027	900 688	216 495	409 336	
Value added†† -----	4 393 828	492 652	514 261	640 222	945 306	561 295	449 281	389 657	111 974	289 179	
1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees** -----	1	2	3	2	1	(W)	(W)	(W)	(W)	-	
Net construction receipts† -----	1	2	3	2	(W)	(W)	(W)	(W)	(W)	(W)	
Capital expenditures, other than land -----	2	7	8	4	1	(W)	(W)	(W)	(W)	(W)	

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

Table 8. Selected Statistics for Establishments With Payroll by Receipts Size Class: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with all business receipts of—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1982											
Number of establishments	18 078	2 526	2 188	3 343	4 334	2 401	1 529	1 057	393	172	134
All employees**	151 902	2 991	3 419	7 371	16 607	16 575	17 757	23 342	15 167	12 814	35 855
Payroll, all employees	2 902 090	8 824	22 860	63 764	192 779	245 258	313 778	487 264	372 744	313 510	881 307
Construction worker hours (thousands)	184 687	2 332	3 317	8 118	19 161	19 630	21 038	27 963	20 165	17 120	45 840
All business receipts	10 701 097	29 436	80 797	242 859	695 295	839 288	1 070 388	1 667 148	1 374 209	1 166 213	3 535 462
Total construction receipts	10 360 020	28 998	80 105	239 450	680 892	814 136	1 040 933	1 618 558	1 339 360	1 131 879	3 385 707
Net construction receipts†	7 792 679	26 269	69 802	221 934	613 023	711 445	865 570	1 330 216	1 035 618	862 047	2 056 753
Value added††	4 948 283	15 968	40 231	133 030	361 907	434 266	537 557	834 330	657 202	540 938	1 392 850
Payments for materials, components, supplies, and fuels	3 126 008	10 612	30 142	91 624	261 754	296 629	349 731	533 414	404 808	348 864	798 427
Payments for construction work subcontracted to others	2 567 341	2 729	10 302	17 516	67 869	102 691	175 362	288 342	303 742	269 832	1 328 954
Rental payments for machinery, equipment, and structures	135 502	490	1 003	2 705	8 387	12 030	14 807	22 336	18 233	15 033	40 475
Capital expenditures, other than land	154 890	346	1 086	4 166	14 042	15 766	18 628	25 481	22 313	14 717	38 343
End-of-year gross book value of depreciable assets	1 939 966	11 281	26 249	70 825	178 182	196 624	228 630	315 214	243 600	188 546	480 833
1977											
All employees**	180 454	(S)	5 066	11 201	25 303	21 471	22 218	28 028	17 943	145 883	(NA)
Total construction receipts	9 530 951	(S)	100 011	304 954	821 650	885 321	1 063 250	1 602 718	1 252 691	1 467 796	(NA)
Value added††	4 393 828	(S)	59 749	163 577	409 547	429 630	492 776	773 375	543 729	1 503 544	(NA)
1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	3	5	4	3	3	3	1	(W)	(W)	(W)
Net construction receipts†	1	4	6	3	3	3	3	2	(W)	(W)	(W)
Capital expenditures, other than land	2	22	16	11	7	9	9	2	(W)	(W)	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

†Data for this size class includes establishments with receipts of \$10,000,000 or more, which were not tabulated separately in 1977.

Table 9. Construction Receipts for Establishments With Payroll by Type of Construction: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Construction receipts			Relative standard error of estimate (percent) for column—		
	Total	New construction ¹	Maintenance and repair	A	B	C
	A	B	C	A	B	C
1982						
Total construction receipts†	10 360 020	7 842 378	2 517 641	1	1	1
Building construction	7 061 807	5 459 882	1 601 925	(W)	1	1
Single-family houses	1 544 402	1 104 766	439 636	2	2	2
Single-family houses, detached	1 373 974	964 176	409 797	2	2	2
Single-family houses, attached	170 428	140 589	29 838	5	6	7
Apartment buildings with two or more apartments	337 268	263 774	73 494	2	2	4
Other residential buildings	133 121	110 485	22 635	2	3	8
Office and bank buildings	1 226 563	973 108	253 455	1	1	1
Office buildings	1 101 094	881 357	219 737	1	1	1
Bank buildings and other financial institutions	125 469	91 750	33 718	2	3	2
Farm buildings	82 424	68 672	13 751	4	5	7
Industrial buildings and warehouses	1 814 939	1 391 577	423 361	1	1	1
Industrial buildings	1 563 149	1 187 701	375 447	1	1	1
Warehouses	251 790	203 876	47 913	2	2	4
Stores, restaurants, public garages, and automobile service stations	674 454	535 593	138 860	2	3	3
Religious buildings	119 611	88 645	30 966	5	5	5
Educational buildings	300 502	213 139	87 363	1	1	4
Hospitals and institutional buildings	693 397	597 627	95 770	1	1	2
Amusement, social, and recreational buildings	66 605	58 702	7 902	4	4	10
Other nonresidential buildings	68 521	53 794	14 732	5	4	10
Nonbuilding construction	2 698 422	1 907 983	790 439	1	1	1
Highways, streets, and related facilities	762 610	416 795	345 814	1	1	3
Bridges, tunnels, and elevated highways	185 597	117 058	68 539	1	1	2
Bridges and elevated highways	157 671	(D)	(D)	1	—	—
Tunnels	27 926	(D)	(D)	(W)	—	—
Power and communication transmission lines, towers, and related facilities	141 370	107 790	33 579	3	3	5
Sewers, water mains, and related facilities	262 000	228 890	33 110	2	1	4
Sewers, sewer lines, and related facilities	185 067	165 378	19 688	2	2	5
Water mains and related facilities	76 933	63 511	13 421	3	4	5
Pipeline, other than sewer or water lines	109 485	87 890	21 594	3	4	3
Sewage treatment and water treatment plants	193 532	181 130	12 402	3	3	7
Sewage treatment plants	114 039	107 905	6 134	4	4	9
Water treatment plants	79 492	73 225	6 267	2	2	9
Mass transit construction	56 209	41 218	14 990	2	1	6
Heavy industrial facilities	815 093	614 170	200 922	(W)	(W)	1
Blast furnaces, petroleum refineries, and chemical complexes	243 708	156 710	86 997	1	(W)	2
Power plants	571 385	457 460	113 925	(W)	(W)	(W)
Power plants, nuclear	116 297	101 263	15 034	(W)	(W)	(W)
Power plants, except nuclear	455 087	356 197	98 890	(W)	(W)	(W)
Other nonbuilding construction	172 526	113 042	59 489	4	6	5
Construction work, n.s.k.	599 789	474 512	125 276	3	3	4
1977						
Total construction receipts†	9 530 951	7 613 433	1 917 518	1	1	1
Building construction	6 579 028	5 258 491	1 320 537	1	1	1
Single-family houses	2 255 125	1 797 337	457 788	2	2	3
Apartment buildings with two or more apartments	418 505	356 168	62 337	3	4	4
Other residential buildings	78 676	58 169	20 507	3	4	3
Office and bank buildings	507 583	413 044	94 539	1	1	2
Farm buildings	68 080	56 037	12 043	4	4	9
Industrial buildings and warehouses	1 552 877	1 195 695	357 182	1	1	1
Stores, restaurants, public garages, and automobile service stations	479 038	387 013	92 025	1	1	3
Religious buildings	104 811	73 859	30 952	3	3	8
Educational buildings	385 147	317 481	67 666	1	1	4
Hospitals and institutional buildings	600 666	504 389	96 277	1	1	7
Amusement, social, and recreational buildings	77 208	62 000	15 208	5	5	13
Other nonresidential buildings	51 313	37 298	14 015	3	4	4
Nonbuilding construction	2 430 628	1 899 348	531 280	1	1	1
Highways, streets, and related facilities	662 291	491 091	171 200	1	1	1
Bridges, tunnels, and elevated highways	146 697	120 143	26 554	2	2	5
Power and communication transmission lines, towers, and related facilities	157 199	133 976	23 223	1	1	1
Sewers, water mains, and related facilities	296 878	274 538	22 340	2	2	8
Sewage treatment and water treatment plants	253 300	239 960	13 340	1	1	4
Heavy industrial facilities	263 469	152 737	110 732	(W)	(W)	1
Power plants	313 914	224 377	89 537	(W)	(W)	(W)
Other nonbuilding construction	336 880	262 526	74 354	3	4	4
Construction work, n.s.k.	521 393	454 610	66 783	2	2	4

¹Includes data for work done as additions and alterations.

Table 10. Quarterly Construction Worker Hours and Employment for Establishments With

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction industries and subdividers and developers	18 078	121 582	184 687	102 185	38 545	123 536	47 167
15,18, 17	Construction industries:							
15	General building contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses	2 716	8 223	11 492	7 132	2 467	8 320	2 962
1522	Other residential buildings	246	1 141	1 837	1 053	420	1 125	452
1531	Operative builders	385	1 233	1 877	1 105	418	1 270	494
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses	400	4 949	8 102	3 984	1 643	4 857	2 012
1542	Nonresidential buildings, n.e.c.	905	8 817	14 553	7 517	3 034	8 747	3 735
18	Heavy construction general contractors:							
1611	Highway and street construction	416	5 539	9 341	2 371	962	6 324	2 605
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction	43	1 103	1 823	777	298	1 230	492
1623	Water, sewer, and utility lines	323	5 683	9 798	4 110	1 640	5 889	2 501
1629	Heavy construction, n.e.c.	249	14 392	18 713	14 407	4 690	16 188	5 113
17	Special trade contractors:							
1711	Plumbing, heating, and air conditioning	2 505	15 882	25 985	14 824	6 073	14 888	6 219
1721	Painting, paper hanging, and decorating	1 097	4 479	5 838	3 349	1 102	4 757	1 566
1731	Electrical work	1 296	10 476	17 353	9 829	4 230	10 263	4 343
174	Masonry, plastering, and tile setting:							
1741	Masonry, stone setting, and other stonework	998	4 020	5 180	2 717	816	4 103	1 355
1742	Plastering, drywall, and insulation work	607	5 021	7 722	4 756	1 839	4 981	1 929
1743	Terrazzo, tile, marble, and mosaic work	76	385	562	374	131	364	137
175	Carpentering and flooring:							
1751	Carpentering	1 193	3 650	5 134	3 130	1 111	3 563	1 282
1752	Floor laying and other floorwork	266	948	1 331	824	279	956	338
1761	Roofing and sheet metal work	1 047	6 672	10 099	5 126	1 943	6 619	2 508
1771	Concrete work	1 002	5 470	7 550	3 116	1 066	5 798	1 955
1781	Water well drilling	109	347	652	336	167	349	168
179	Miscellaneous special trade contractors:							
1791	Structural steel erection	138	2 009	3 135	1 840	690	1 661	706
1793	Glass and glazing work	147	779	1 274	707	303	748	297
1794	Excavating and foundation work	957	4 658	7 189	3 405	1 288	4 683	1 884
1795	Wrecking and demolition work	40	352	447	281	91	326	107
1796	Installing building equipment, n.e.c.	174	2 158	3 033	2 361	812	2 159	746
1799	Special trade contractors, n.e.c.	605	2 913	4 174	2 494	903	3 076	1 116
6552	Subdividers and developers, n.e.c.	128	274	480	251	128	283	132

¹Sum of construction workers during pay periods including 12th of March, May, August, and November.

Payroll by Industry: 1982

July to September		October to December		Relative standard error of estimate (percent) for column—										SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
132 469	52 332	120 012	46 643	1	1	1	1	1	1	1	1	1	1	15,16,17
														15
8 602	3 223	7 852	2 838	3	3	4	5	3	4	3	4	3	5	152
1 129	463	1 205	500	5	5	6	9	5	6	5	7	6	7	1521
														1522
1 247	500	1 125	463	8	7	9	9	9	9	9	10	8	9	1531
5 461	2 293	5 242	2 153	2	2	2	3	2	3	2	2	2	2	154
9 535	4 041	8 933	3 742	2	1	2	2	1	2	2	2	2	2	1541
														1542
														16
7 603	3 481	5 545	2 290	2	1	2	3	2	2	2	2	2	2	1611
														162
1 385	593	1 004	438	(W)	(W)	(W)	(W)	(W)	(W)	1	1	(W)	1	1622
7 236	3 394	5 352	2 262	2	1	2	2	2	2	1	1	3	2	1623
13 966	4 734	12 916	4 174	(W)	1	(W)	1	1	1	(W)	1	1	1	1629
														17
16 406	6 825	16 343	6 866	1	1	1	2	1	2	3	3	1	2	1711
5 331	1 804	3 886	1 364	4	4	5	7	4	5	4	5	4	5	1721
11 271	4 467	10 076	4 311	1	1	1	2	1	2	1	2	2	2	1731
														174
4 346	1 531	4 399	1 477	4	5	5	7	5	6	5	6	5	6	1741
5 025	1 970	5 034	1 983	3	3	3	3	3	3	3	4	3	4	1742
399	145	400	147	12	12	13	16	13	15	13	15	12	15	1743
														175
3 780	1 418	3 553	1 322	4	5	5	7	5	7	5	6	5	7	1751
1 010	372	886	340	8	9	8	11	8	11	9	11	9	12	1752
7 431	2 925	6 971	2 720	3	3	2	3	3	3	3	3	3	4	1761
6 777	2 485	5 701	2 042	3	3	4	5	3	5	4	5	4	4	1771
338	167	293	149	15	16	14	18	16	19	17	19	16	19	1781
														179
2 319	879	2 162	858	3	3	3	3	4	4	5	5	3	3	1791
789	326	835	346	7	7	8	10	7	10	7	9	7	9	1793
5 188	2 132	4 949	1 883	4	4	4	6	4	5	5	5	4	5	1794
375	121	402	127	8	6	6	7	8	10	7	6	9	9	1795
2 108	756	1 946	718	2	3	2	3	2	3	2	3	3	3	1796
3 128	1 156	2 713	998	5	5	5	7	6	7	6	6	5	7	1799
278	117	280	118	8	9	8	13	8	12	8	12	8	12	6552

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker (thousands)	Total construction receipts per employee (\$1,000)	Average per dollar of total construction receipts				
						Payroll, all employees	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Rental payments for machinery, equipment, and structures
	Construction Industries and subdividers and developers	8.4	19.1	1.5	85.2	.280	.302	.248	.015	.013
15,16, 17	Construction Industries:									
15	General building contractors and operative builders:									
152	General contractors, residential buildings:									
1521	Single-family houses	3.7	11.9	1.4	82.5	.177	.338	.285	.011	.007
1522	Other residential buildings	5.9	15.1	1.6	134.2	.144	.247	.513	.011	.004
1531	Operative builders	5.4	16.7	1.5	238.5	.119	.299	.444	.008	.005
154	General contractors, nonresidential buildings:									
1541	Industrial buildings and warehouses	18.5	24.5	1.6	166.1	.220	.200	.534	.014	.012
1542	Nonresidential buildings, n.e.c.	13.1	21.2	1.7	184.7	.154	.168	.612	.008	.006
16	Heavy construction general contractors:									
1611	Highway and street construction	16.3	22.7	1.7	123.3	.226	.445	.160	.023	.020
162	Heavy construction, except highway:									
1622	Bridge, tunnel, and elevated highway construction	30.8	22.9	1.7	94.7	.290	.294	.178	.029	.029
1623	Water, sewer, and utility lines	20.6	20.2	1.7	67.7	.350	.249	.138	.039	.032
1629	Heavy construction, n.e.c.	69.7	20.1	1.3	60.9	.398	.257	.195	.013	.014
17	Special trade contractors:									
1711	Plumbing, heating, and air conditioning	8.4	21.4	1.6	84.0	.337	.340	.124	.011	.012
1721	Painting, paper hanging, and decorating	4.7	13.8	1.3	37.6	.418	.230	.049	.019	.012
1731	Electrical work	10.1	23.1	1.7	76.3	.379	.403	.030	.010	.009
174	Masonry, plastering, and tile setting:									
1741	Masonry, stone setting, and other stonework	4.5	14.0	1.3	43.0	.368	.321	.047	.012	.012
1742	Plastering, drywall, and insulation work	9.8	17.4	1.5	53.8	.383	.335	.043	.008	.010
1743	Terrazzo, tile, marble, and mosaic work	6.3	18.5	1.5	60.1	.384	.406	.029	.005	.006
175	Carpentering and flooring:									
1751	Carpentering	3.6	13.0	1.4	53.7	.281	.347	.140	.008	.007
1752	Floor laying and other floorwork	4.6	15.1	1.4	65.3	.294	.465	.031	.010	.013
1761	Roofing and sheet metal work	7.8	18.1	1.5	68.1	.324	.402	.069	.018	.011
1771	Concrete work	6.3	15.6	1.4	59.2	.305	.379	.086	.014	.019
1781	Water well drilling	3.9	16.1	1.9	71.0	.279	.379	.017	.023	.009
179	Miscellaneous special trade contractors:									
1791	Structural steel erection	17.2	24.4	1.6	70.7	.407	.375	.089	.018	.032
1793	Glass and glazing work	7.4	20.1	1.6	92.9	.300	.483	.030	.006	.013
1794	Excavating and foundation work	5.8	17.3	1.5	69.9	.293	.303	.094	.049	.044
1795	Wrecking and demolition work	10.0	17.6	1.3	58.5	.344	.125	.151	.041	.041
1796	Installing building equipment, n.e.c.	15.2	21.5	1.4	66.8	.395	.240	.038	.018	.009
1799	Special trade contractors, n.e.c.	5.9	14.2	1.4	58.3	.297	.387	.058	.032	.014
6552	Subdividers and developers, n.e.c.	5.1	14.0	1.8	114.2	.296	.185	.214	.028	.011

Table 12. **Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982**

(Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D)

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	CINCINNATI-HAMILTON, OHIO-KY.-IND., SCSA											
	Construction Industries and subdividers and developers	3 026	24 414	450 828	1 695 320	1 257 522	747 572	541 710	437 797	21 350	1	1
5,16,17	Construction Industries:											
5	General building contractors and operative builders:											
52	General contractors, residential buildings:											
521	Single-family houses	474	2 007	27 353	189 259	126 669	77 083	53 696	62 590	1 000	7	5
522	Other residential buildings	40	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
531	Operative builders	71	621	11 837	98 317	51 533	26 083	(D)	(D)	(D)	10	6
54	General contractors, nonresidential buildings:											
541	Industrial buildings and warehouses	52	824	18 479	107 091	(D)	30 265	21 916	(D)	(D)	5	-
542	Nonresidential buildings, n.e.c.	121	1 625	36 421	244 050	52 964	(D) 37 753	(D) 191 086	(D) 1 878	(D) 4	6	6
6	Heavy construction general contractors:											
611	Highway and street construction	62	1 134	24 432	134 018	121 927	42 161	84 689	12 091	(D)	6	2
62	Heavy construction, except highway:											
622	Bridge, tunnel, and elevated highway construction	3	59	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(W)	-
623	Water, sewer, and utility lines	39	635	9 383	30 238	25 316	16 963	(D) 4 922	(D)	(D)	10	10
629	Heavy construction, n.e.c.	16	1 200	(D) 48 807	(D)	(D)	(D)	(D)	(D)	(D)	(W)	-
7	Special trade contractors:											
711	Plumbing, heating, and air conditioning	458	4 229	79 210	235 181	212 144	128 991	85 483	23 038	2 584	3	4
721	Painting, paper hanging, and decorating	229	1 097	13 822	29 934	28 793	22 121	6 695	1 141	470	9	9
731	Electrical work	204	2 112	49 903	119 304	117 789	72 905	45 891	1 515	1 019	5	3
74	Masonry, plastering, and tile setting:											
741	Masonry, stone setting, and other stonework	179	924	12 745	29 876	29 489	19 545	9 966	387	(D)	11	10
742	Plastering, drywall, and insulation work	119	1 099	22 267	55 808	53 995	34 775	19 654	1 813	(D)	7	6
743	Terrazzo, tile, marble, and mosaic work	25	154	2 805	6 467	6 421	3 828	2 717	46	45	21	16
75	Carpentering and flooring:											
751	Carpentering	178	798	10 352	38 438	31 182	20 031	(D)	5 257	(D)	10	10
752	Floor laying and other floorwork	43	239	3 693	11 421	11 093	6 221	5 706	328	149	13	13
761	Roofing and sheet metal work	180	1 328	24 889	72 122	68 239	40 387	28 071	3 884	1 442	8	7
771	Concrete work	152	1 317	21 938	60 266	(D)	37 178	18 818	(D)	1 030	6	-
781	Water well drilling	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
79	Miscellaneous special trade contractors:											
791	Structural steel erection	23	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
793	Glass and glazing work	34	225	4 304	12 590	12 260	7 476	5 830	*330	*87	20	20
795	Excavating and foundation work	142	971	18 011	68 142	63 293	42 118	22 376	4 849	1 609	9	13
796	Wrecking and demolition work	7	88	(D)	6 861	(D)	4 296	(D)	(D)	(D)	(W)	-
799	Installing building equipment, n.e.c.	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
552	Special trade contractors, n.e.c.	115	649	9 411	34 065	31 310	19 655	13 553	2 755	918	12	10
	Subdividers and developers, n.e.c.	31	123	2 293	7 860	6 404	6 076	874	*1 456	57	11	22
	CLEVELAND-AKRON-LORAIN SCSA											
	Construction Industries and subdividers and developers	4 382	53 129	1 099 408	3 596 610	2 623 666	1 796 783	961 339	972 944	43 729	1	1
5,16,17	Construction Industries:											
5	General building contractors and operative builders:											
52	General contractors, residential buildings:											
521	Single-family houses	555	2 151	26 149	138 251	99 378	52 584	48 457	38 873	1 866	7	8
522	Other residential buildings	39	123	(D)	12 543	(D)	4 008	2 762	(D)	(D)	11	-
531	Operative builders	85	516	8 907	53 140	23 313	8 840	15 053	29 828	300	16	7
54	General contractors, nonresidential buildings:											
541	Industrial buildings and warehouses	94	2 285	67 581	263 222	122 561	133 059	(D)	140 661	2 459	3	2
542	Nonresidential buildings, n.e.c.	253	3 358	73 261	560 086	(D)	(D)	67 539	(D)	(W)	3	-

Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	CLEVELAND-AKRON-LORAIN SCSA—Con.											
15,16, 17	Construction Industries—Con.											
16	Heavy construction general contractors:											
1611	Highway and street construction -----	111	2 215	52 892	211 340	168 576	103 012	(D)	42 764	4 721	4	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1623	Water, sewer, and utility lines-----	66	1 449	27 554	83 627	72 286	52 454	20 762	11 341	2 801	3	3
1629	Heavy construction, n.e.c.-----	50	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning-----	630	(D)	(D)	435 159	(D)	252 288	132 832	(D)	5 020	-	-
1721	Painting, paper hanging, and decorating-----	285	1 566	24 406	57 556	54 358	41 597	(D)	3 198	1 017	6	6
1731	Electrical work-----	320	3 623	99 919	283 649	273 949	168 108	(D)	9 700	1 977	3	2
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework-----	254	1 238	21 138	60 965	56 000	37 244	18 921	4 965	955	8	6
1742	Plastering, drywall, and insulation work-----	153	2 203	33 686	(D)	(D)	68 285	30 048	6 823	534	6	-
1743	Terrazzo, tile, marble, and mosaic work-----	23	(D)	(D)	(D)	6 282	(D)	(D)	381	(D)	-	-
175	Carpentering and flooring:											
1751	Carpentering-----	299	1 290	18 197	62 475	54 166	34 011	(D)	8 309	(D)	8	8
1752	Floor laying and other floorwork-----	63	291	4 530	15 879	15 003	9 048	6 669	876	*192	15	16
1761	Roofing and sheet metal work-----	268	2 221	44 019	135 094	122 824	78 871	44 889	12 271	1 516	5	4
1771	Concrete work-----	327	2 131	37 978	120 049	108 468	61 186	47 759	11 581	1 574	7	5
1781	Water well drilling-----	9	37	565	1 317	(D)	920	395	(D)	(D)	26	-
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	42	(D)	(D)	(D)	69 694	(D)	3 412	(D)	(D)	-	4
1793	Glass and glazing work-----	41	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1794	Excavating and foundation work-----	189	1 032	19 594	69 229	60 222	42 573	19 863	9 007	3 371	8	7
1795	Wrecking and demolition work-----	14	(D)	(D)	(D)	(D)	(D)	(D)	255	84	-	-
1796	Installing building equipment, n.e.c.-----	37	(D)	(D)	(D)	(D)	(D)	12 467	2 746	1 182	-	-
1799	Special trade contractors, n.e.c.-----	155	1 211	18 544	67 797	63 578	38 612	26 223	4 219	*2 006	7	9
6552	Subdividers and developers, n.e.c.-----	23	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
	AKRON SMSA											
	Construction Industries and subdividers and developers	1 047	19 159	345 969	941 432	772 294	562 122	218 604	169 138	14 802	1	1
15,16, 17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses-----	165	758	9 791	50 312	39 202	18 799	20 824	11 110	510	12	16
1522	Other residential buildings-----	7	48	978	4 683	2 247	1 468	796	2 436	43	21	14
1531	Operative builders-----	13	*172	2 371	17 109	6 568	(D)	5 801	10 541	(D)	45	12
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses-----	20	228	4 359	20 314	10 684	6 331	(D)	9 630	149	20	19
1542	Nonresidential buildings, n.e.c.-----	48	448	8 359	55 482	35 618	17 279	18 454	19 864	575	10	6
16	Heavy construction general contractors:											
1611	Highway and street construction-----	36	761	15 157	64 220	54 562	34 933	20 260	9 658	1 747	4	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	-	-	-	-	-	-	-	-	-	-	-
1623	Water, sewer, and utility lines-----	17	572	11 224	30 361	24 589	18 458	6 226	5 772	1 115	6	7
1629	Heavy construction, n.e.c.-----	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-

Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.

in thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	AKRON SMSA—Con.											
5,16,17	Construction Industries—Con.											
7	Special trade contractors:											
711	Plumbing, heating, and air conditioning	147	(D)	(D)	63 669	(D)	32 547	26 255	(D)	1 466	-	(D)
721	Painting, paper hanging, and decorating	56	278	3 842	10 278	9 869	7 421	(D)	409	49	20	18
731	Electrical work	68	491	11 799	27 843	27 114	17 148	10 488	729	232	9	7
74,741	Masonry, plastering, and tile setting: Masonry, stone setting, and other stonework	54	240	3 670	9 863	9 372	6 270	3 139	*491	*53	19	15
742	Plestering, drywall, and insulation work	53	520	10 150	24 154	22 256	15 618	(D)	1 898	119	16	9
743	Terrazzo, tile, marble, and mosaic work	*3	17	325	(D)	(D)	593	334	(D)	-	26	-
75,751	Carpentering and flooring: Carpentering	57	190	2 125	8 341	7 107	4 058	3 176	*1 234	(D)	24	24
752	Floor laying and other floorwork	*22	*56	*595	*2 058	*1 704	*986	*1 348	(S)	-	44	49
761	Roofing and sheet metal work	71	802	15 990	48 876	44 367	31 316	(D)	4 509	439	6	7
771	Concrete work	85	481	6 698	20 541	19 304	10 973	8 368	1 237	*360	15	15
781	Water well drilling	*7	21	*350	(D)	(D)	*595	*317	(D)	-	45	-
79	Miscellaneous special trade contractors:											
791	Structural steel erection	7	120	2 227	6 338	(D)	3 802	(D)	(D)	128	1	-
793	Glass and glazing work	*8	17	(S)	(S)	(S)	(S)	(S)	(S)	(S)	59	-
794	Excavating and foundation work	44	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-
795	Wrecking and demolition work	*6	(S)	(S)	*506	*456	*416	*41	(S)	(D)	-	69
796	Installing building equipment, n.e.c.	6	460	9 856	17 727	(D)	12 627	(D)	(D)	(D)	(W)	-
799	Special trade contractors, n.e.c.	27	315	3 551	14 171	12 900	7 368	5 601	*1 271	(S)	14	25
552	Subdividers and developers, n.e.c.	7	29	318	2 101	1 842	1 413	*435	(S)	-	15	-
	CINCINNATI, OHIO-KY.-IND., SMSA											
	Construction Industries and subdividers and developers.	2 572	20 854	381 237	1 487 565	1 081 822	634 539	471 683	405 743	19 229	2	2
5,16,17	Construction Industries:											
5	General building contractors and operative builders:											
52	General contractors, residential buildings:											
521	Single-family houses	419	1 791	24 921	178 110	117 417	72 210	49 160	60 693	913	8	5
522	Other residential buildings	36	140	1 823	7 839	6 001	4 521	1 746	1 838	*157	23	29
531	Operative builders	50	565	10 651	85 658	47 633	26 594	(D)	38 025	461	11	7
54	General contractors, nonresidential buildings:											
541	Industrial buildings and warehouses	49	774	17 414	104 747	49 305	28 410	21 302	55 442	589	6	6
542	Nonresidential buildings, n.e.c.	108	1 542	34 834	234 002	47 577	(D)	36 468	186 425	1 849	4	6
6	Heavy construction general contractors:											
611	Highway and street construction	52	947	20 333	116 575	106 791	32 859	77 796	9 784	3 019	6	2
62,622	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
623	Water, sewer, and utility lines	29	469	7 263	24 587	20 630	14 255	6 611	3 957	772	13	11
629	Heavy construction, n.e.c.	12	750	11 098	29 882	27 591	20 077	(D)	2 291	697	(W)	(W)
7	Special trade contractors:											
711	Plumbing, heating, and air conditioning	393	3 942	74 115	219 873	197 756	121 274	78 784	22 118	2 365	4	4
721	Painting, paper hanging, and decorating	197	1 014	13 022	27 845	26 738	20 498	6 263	1 107	467	10	9
731	Electrical work	169	1 818	42 060	98 938	97 670	61 202	37 470	1 268	878	5	3
74,741	Masonry, plastering, and tile setting: Masonry, stone setting, and other stonework	148	797	11 167	25 730	25 440	16 874	8 583	290	367	13	11
742	Plestering, drywall, and insulation work	98	946	20 016	50 010	48 438	31 388	17 347	1 572	513	7	6
743	Terrazzo, tile, marble, and mosaic work	18	131	2 386	5 312	5 288	3 153	2 259	24	45	22	16
75,751	Carpentering and flooring: Carpentering	143	679	9 039	31 229	27 756	18 011	9 816	3 474	*283	11	11
752	Floor laying and other floorwork	38	215	3 475	10 755	10 447	5 743	5 092	308	149	14	14
781	Roofing and sheet metal work	156	1 143	21 830	63 608	60 004	35 436	24 786	3 605	1 310	8	5

Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	I
	CINCINNATI, OHIO-KY-IND., SMSA—Con.											
15,16, 17	Construction Industries—Con.											
175	Special trade contractors—Con.											
1771	Carpentering and flooring—Con.											
	Concrete work -----	129	693	7 521	23 521	20 987	13 656	7 997	2 534	308	11	15
1781	Water well drilling -----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	18	334	7 470	13 314	12 829	11 009	2 048	485	(D)	9	8
1793	Glass and glazing work -----	29	200	3 751	11 184	10 854	6 595	5 305	*330	*87	22	21
1794	Excavating and foundation work -----	121	851	15 732	60 833	56 720	37 883	19 960	4 113	1 381	9	15
1795	Wrecking and demolition work -----	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1796	Installing building equipment, n.e.c. -----	25	296	7 593	17 314	16 974	11 959	(D)	340	192	2	(W)
1799	Special trade contractors, n.e.c. -----	104	616	9 145	32 430	29 748	18 581	13 013	2 682	870	13	10
6552	Subdividers and developers, n.e.c. -----	25	114	2 233	7 671	6 269	5 965	820	*1 402	57	9	23
	CLEVELAND SMSA											
	Construction Industries and subdividers and developers	2 871	31 612	707 725	2 500 251	1 718 602	1 140 748	690 730	781 649	26 849	1	1
15,16, 17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	302	1 182	14 471	79 949	54 140	30 406	24 910	25 809	1 207	8	10
1522	Other residential buildings -----	29	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-
1531	Operative builders -----	64	298	5 684	29 708	12 692	4 818	8 161	17 017	221	11	11
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	66	1 955	60 983	230 933	105 457	123 079	(D)	125 476	2 101	2	2
1542	Nonresidential buildings, n.e.c. -----	178	2 740	62 053	491 947	(D)	(D)	47 740	(D)	2 508	4	-
16	Heavy construction general contractors:											
1611	Highway and street construction -----	62	1 355	36 053	140 763	108 336	65 183	46 028	32 427	2 703	5	4
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1623	Water, sewer, and utility lines -----	42	861	16 042	52 471	46 977	33 422	14 391	5 494	1 524	3	3
1629	Heavy construction, n.e.c. -----	28	3 001	78 274	221 977	171 873	109 331	(D)	50 104	2 157	(W)	(W)
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning -----	424	5 164	129 498	343 424	294 221	205 898	93 959	49 203	3 236	4	2
1721	Painting, paper hanging, and decorating -----	211	1 233	20 031	45 642	43 086	33 053	10 042	2 557	920	8	7
1731	Electrical work -----	213	2 780	76 408	229 065	222 120	123 351	100 386	6 945	1 554	3	1
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework -----	188	954	16 856	48 658	44 675	30 036	14 768	3 983	852	9	7
1742	Plastering, drywall, and insulation work -----	80	1 648	23 296	73 849	68 934	52 055	19 876	4 915	415	6	6
1743	Terrazzo, tile, marble, and mosaic work -----	19	111	1 500	4 342	4 061	2 047	2 030	*281	*15	28	23
175	Carpentering and flooring:											
1751	Carpentering -----	211	1 019	15 332	50 075	43 285	27 908	16 371	6 790	406	10	10
1752	Floor laying and other floorwork -----	36	220	3 785	12 996	12 479	7 592	4 971	517	*192	14	16
1761	Roofing and sheet metal work -----	169	1 198	24 025	74 502	67 312	40 796	26 768	7 191	804	7	5
1771	Concrete work -----	211	1 527	29 391	92 594	82 546	46 235	36 718	10 048	1 194	6	5
1781	Water well drilling -----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	32	987	29 297	71 056	63 407	31 377	(D)	7 649	467	6	4
1793	Glass and glazing work -----	31	347	8 502	32 274	30 890	16 789	14 815	1 384	188	9	8
1794	Excavating and foundation work -----	125	647	11 492	39 890	35 824	26 025	11 584	4 066	1 987	10	9
1795	Wrecking and demolition work -----	7	72	1 012	3 112	(D)	2 593	466	(D)	(D)	(W)	-
1796	Installing building equipment, n.e.c. -----	29	996	18 586	44 379	42 625	36 332	8 232	1 754	887	1	1
1799	Special trade contractors, n.e.c. -----	101	790	13 972	49 176	46 454	28 982	18 475	2 722	669	8	6
6552	Subdividers and developers, n.e.c. -----	14	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-

Table 12. **Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.**

(Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D)

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	COLUMBUS SMSA											
	Construction Industries and subdividers and developers	1 961	17 702	317 998	1 357 175	962 068	609 318	386 967	395 107	18 706	2	1
15,16,17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	262	1 200	13 922	74 683	50 369	31 171	21 586	24 314	639	12	11
1522	Other residential buildings	56	633	9 078	82 070	32 454	14 102	(D)	49 616	564	7	3
1531	Operative builders	71	437	7 215	80 888	47 371	30 285	19 645	33 517	906	10	7
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	39	532	12 278	57 623	31 952	19 220	(D)	25 671	330	8	8
1542	Nonresidential buildings, n.e.c.	113	1 574	30 651	270 348	95 939	68 792	28 210	174 409	1 267	6	5
16	Heavy construction general contractors:											
1611	Highway and street construction	38	962	23 304	82 366	68 490	43 949	(D)	13 876	1 510	3	3
162	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction	9	183	3 945	15 943	(D)	6 807	4 894	(D)	300	5	-
1623	Water, sewer, and utility lines	48	1 391	25 742	87 940	74 742	54 511	21 099	13 198	4 355	7	4
1629	Heavy construction, n.e.c.	28	265	4 700	26 855	21 701	10 366	12 109	5 154	710	12	8
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning	246	2 512	50 666	177 962	150 192	90 677	61 953	27 770	2 236	4	3
1721	Painting, paper hanging, and decorating	104	528	6 491	16 525	15 254	11 487	3 883	*1 271	178	13	11
1731	Electrical work	140	1 703	36 910	100 485	97 420	58 446	40 738	3 066	715	6	3
174	Masonry, plastering, and tile setting: Masonry, stone setting, and other stonework	147	619	6 578	20 127	19 508	13 244	6 611	619	132	14	11
1742	Plastering, drywall, and insulation work	66	766	13 990	32 203	31 123	22 349	10 631	1 080	211	8	7
1743	Terrazzo, tile, marble, and mosaic work	3	39	951	2 150	(D)	1 387	772	(D)	(D)	26	-
175	Carpentering and flooring: Carpentering	116	496	6 509	22 624	18 554	10 627	8 016	4 070	80	14	9
1752	Floor laying and other floorwork	31	176	2 459	6 993	6 769	3 613	3 613	*224	(D)	25	15
1761	Roofing and sheet metal work	92	904	18 166	56 045	53 611	29 741	(D)	2 434	679	6	5
1771	Concrete work	126	845	9 578	31 561	29 137	17 079	12 231	2 424	423	17	11
1781	Water well drilling	13	120	2 208	8 060	(D)	5 104	2 821	(D)	(D)	26	-
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	18	160	3 624	6 110	5 955	5 336	626	155	(D)	6	8
1793	Glass and glazing work	17	143	2 597	8 981	8 739	4 798	4 011	242	52	14	8
1794	Excavating and foundation work	66	552	10 496	35 047	31 883	20 785	11 239	3 165	1 031	8	6
1795	Wrecking and demolition work	6	68	1 219	2 853	(D)	2 990	(D)	(D)	(D)	21	-
1796	Installing building equipment, n.e.c.	7	137	4 032	14 793	14 680	10 061	(D)	133	(D)	(W)	(W)
1799	Special trade contractors, n.e.c.	76	495	6 966	21 292	19 958	12 278	8 323	1 334	1 022	13	10
6552	Subdividers and developers, n.e.c.	25	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-
	DAYTON SMSA											
	Construction Industries and subdividers and developers	1 434	10 107	186 715	678 435	527 428	308 780	231 420	151 007	10 949	3	3
15,16,17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	188	732	8 076	39 659	30 023	16 504	13 924	9 636	612	12	11
1522	Other residential buildings	12	89	1 419	8 278	4 405	3 885	(D)	3 873	*165	5	6
1531	Operative builders	55	274	4 279	39 550	23 306	11 404	12 000	16 244	*295	20	27
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	30	254	5 500	32 523	17 240	10 340	7 061	15 283	95	18	10
1542	Nonresidential buildings, n.e.c.	64	1 237	28 139	122 369	69 415	40 740	(D)	52 954	1 435	7	3

Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	DAYTON SMSA—Con.											
15,16, 17	Construction Industries—Con.											
	Heavy construction general contractors:											
1611	Highway and street construction	25	205	4 011	21 821	17 584	6 837	10 910	*4 237	66	15	18
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	3	20	415	1 554	1 381	1 012	370	173	-	(W)	(W)
1623	Water, sewer, and utility lines	33	458	6 419	21 693	16 778	11 076	7 091	4 915	447	7	4
1629	Heavy construction, n.e.c.	18	425	11 465	50 972	35 002	15 968	19 092	15 970	(D)	7	3
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning	221	1 603	32 747	99 811	87 933	53 651	36 116	11 878	1 431	6	5
1721	Painting, paper hanging, and decorating	111	399	5 145	12 971	11 930	8 839	3 109	*1 041	348	16	15
1731	Electrical work	107	890	20 730	54 869	53 122	27 007	(D)	1 747	1 067	9	6
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework	65	347	5 053	13 447	12 767	9 141	3 632	680	*158	16	18
1742	Plastering, drywall, and insulation work	77	551	9 664	24 393	24 000	16 311	8 544	394	312	10	7
1743	Terrazzo, tile, marble, and mosaic work	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
175	Carpentering and flooring:											
1751	Carpentering	86	340	3 562	10 250	9 635	5 635	4 347	616	*90	25	23
1752	Floor laying and other floorwork	21	87	1 259	4 223	4 064	2 442	*1 628	*159	(D)	36	35
1761	Roofing and sheet metal work	93	791	14 496	44 678	37 619	20 345	17 368	*7 059	2 067	10	15
1771	Concrete work	71	365	5 213	17 866	16 577	11 112	5 538	*1 289	*309	17	17
1781	Water well drilling	*11	27	423	1 734	(D)	1 181	564	(D)	(D)	23	-
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1793	Glass and glazing work	*12	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-
1794	Excavating and foundation work	56	396	7 200	23 041	21 126	13 695	(D)	1 915	961	14	15
1795	Wrecking and demolition work	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1796	Installing building equipment, n.e.c.	17	209	4 188	11 764	11 377	8 892	(D)	387	212	(W)	(W)
1799	Special trade contractors, n.e.c.	48	272	4 272	12 837	12 490	8 086	5 251	347	*175	20	20
6552	Subdividers and developers, n.e.c.	9	12	135	497	429	*402	64	68	16	26	40
	HAMILTON-MIDDLETOWN SMSA											
	Construction Industries and subdividers and developers	454	3 560	69 591	207 755	175 701	113 032	70 027	32 055	2 121	4	3
15,16, 17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	55	216	2 432	11 149	9 253	4 873	4 537	1 897	*87	21	24
1522	Other residential buildings	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1531	Operative builders	21	56	1 186	12 659	3 900	(D)	4 426	8 759	(S)	18	20
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	3	50	1 065	2 344	(D)	1 855	614	(D)	(D)	(W)	-
1542	Nonresidential buildings, n.e.c.	13	83	1 587	10 048	5 387	*4 273	1 285	4 661	(S)	17	32
16	Heavy construction general contractors:											
1611	Highway and street construction	10	187	4 099	17 443	15 136	9 303	6 894	2 307	(D)	11	9
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1623	Water, sewer, and utility lines	*10	166	2 120	5 651	4 686	2 709	(D)	965	(D)	13	20
1629	Heavy construction, n.e.c.	4	450	(D)	18 925	(D)	(D)	(D)	(D)	(D)	(W)	-

Table 12. **Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.**

Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added‡	Payments for materials, components, supplies, and fuels	Payments for construction work subcontracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	HAMILTON-MIDDLETOWN SMSA—Con.											
5, 16, 17	Construction Industries—Con.											
7	Special trade contractors:											
711	Plumbing, heating, and air conditioning	65	288	5 095	15 308	14 388	7 718	6 699	920	219	19	20
721	Painting, paper hanging, and decorating	32	83	800	2 089	*2 055	1 623	432	*34	(S)	34	41
731	Electrical work	35	294	7 843	20 367	20 119	11 704	8 421	248	142	11	7
74	Masonry, plastering, and tile setting:											
741	Masonry, stone setting, and other stonework	31	127	1 578	4 146	4 049	2 671	1 384	97	(D)	24	17
742	Plastering, drywall, and insulation work	21	153	2 251	5 798	5 557	3 387	2 307	*241	(D)	21	25
743	Terrazzo, tile, marble, and mosaic work	*7	*23	*419	*1 155	*1 133	*675	*458	*22	-	61	62
75	Carpentering and flooring:											
751	Carpentering	35	119	1 313	5 209	3 426	2 020	(D)	*1 783	(D)	27	26
752	Floor laying and other floorwork	*5	*24	*218	*666	*646	*478	*614	*20	-	59	49
761	Roofing and sheet metal work	24	185	3 059	8 514	8 235	4 951	3 285	*279	132	24	17
771	Concrete work	23	624	14 417	36 746	(D)	23 522	10 822	(D)	721	7	-
781	Water well drilling	*4	*12	*143	*721	*659	*551	*330	*62	*36	46	48
79	Miscellaneous special trade contractors:											
791	Structural steel erection	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
793	Glass and glazing work	*5	*25	*553	*1 406	*1 406	*881	*525	-	-	57	55
794	Excavating and foundation work	21	120	2 279	7 309	6 573	4 236	2 416	736	*228	20	22
795	Wrecking and demolition work	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
796	Installing building equipment, n.e.c.	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
799	Special trade contractors, n.e.c.	*11	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-
852	Subdividers and developers, n.e.c.	*6	*9	*60	*189	*135	*111	(S)	(S)	-	61	74
	LORAIN-ELYRIA SMSA											
	Construction Industries and subdividers and developers ..	464	2 358	45 715	154 928	132 771	93 914	52 006	22 157	2 079	4	5
5, 16, 17	Construction Industries:											
5	General building contractors and operative builders:											
52	General contractors, residential buildings:											
521	Single-family houses	89	211	1 887	7 990	6 036	3 379	2 723	1 954	*150	21	23
522	Other residential buildings	3	(S)	(D)	(S)	(D)	(S)	(S)	(D)	(D)	-	-
531	Operative builders	8	46	852	6 323	4 053	(D)	1 092	2 270	(D)	31	16
54	General contractors, nonresidential buildings:											
541	Industrial buildings and warehouses	8	102	2 239	11 975	6 420	3 650	(D)	5 555	209	7	4
542	Nonresidential buildings, n.e.c.	27	170	2 849	12 657	9 057	7 932	1 346	3 600	*33	32	35
8	Heavy construction general contractors:											
811	Highway and street construction	*13	99	1 682	6 357	5 678	2 897	(D)	679	272	20	25
82	Heavy construction, except highway:											
822	Bridge, tunnel, and elevated highway construction	-	-	-	-	-	-	-	-	-	-	-
823	Water, sewer, and utility lines	*7	*16	(S)	*795	(S)	(S)	*146	*75	(S)	63	-
829	Heavy construction, n.e.c.	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
7	Special trade contractors:											
711	Plumbing, heating, and air conditioning	59	376	8 087	28 067	25 392	13 843	12 618	2 675	319	8	9
721	Painting, paper hanging, and decorating	18	*55	*533	*1 636	*1 403	*1 124	*279	(S)	(S)	45	50
731	Electrical work	39	352	11 712	26 741	24 715	27 609	(D)	2 026	191	6	3
74	Masonry, plastering, and tile setting:											
741	Masonry, stone setting, and other stonework	*13	45	612	*2 444	*1 953	938	*1 015	*491	(S)	38	43
742	Plastering, drywall, and insulation work	*20	*35	*240	*945	*935	*613	*323	*10	-	49	48
743	Terrazzo, tile, marble, and mosaic work	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
75	Carpentering and flooring:											
751	Carpentering	32	81	*740	*4 059	3 774	*2 046	(D)	(S)	(S)	39	37
752	Floor laying and other floorwork	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-	-
761	Roofing and sheet metal work	28	221	4 004	11 716	11 145	6 759	(D)	*571	274	20	20

Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	LORAIN-ELYRIA SMSA—Con.											
15,16,17	Construction Industries—Con.											
175	Special trade contractors—Con.											
1771	Carpentering and flooring—Con.											
	Concrete work	32	124	1 889	6 915	6 619	3 979	2 674	296	*20	23	14
1781	Water well drilling	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1793	Glass and glazing work	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1794	Excavating and foundation work	20	59	956	3 137	3 020	1 791	1 229	*117	*66	24	31
1795	Wrecking and demolition work	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1796	Installing building equipment, n.e.c.	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1799	Special trade contractors, n.e.c.	27	*106	*1 021	*4 450	*4 224	*2 262	*2 147	*226	(S)	42	47
6552	Subdividers and developers, n.e.c.	*2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
	TOLEDO, OHIO-MICH., SMSA											
	Construction Industries and subdividers and developers ..	1 201	10 102	226 802	847 581	588 239	369 332	236 308	259 343	14 282	2	2
15,16,17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	184	492	6 042	34 705	22 610	10 375	12 741	12 095	503	16	14
1522	Other residential buildings	18	101	1 417	6 813	3 797	2 286	1 949	3 016	*413	8	14
1531	Operative builders	19	57	1 034	7 576	5 603	3 417	*2 595	1 973	(D)	35	36
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	25	663	18 354	120 760	(D)	(D)	16 818	(D)	1 187	5	-
1542	Nonresidential buildings, n.e.c.	53	898	21 463	148 470	83 476	60 696	(D)	64 994	871	3	2
16	Heavy construction general contractors:											
1611	Highway and street construction	27	365	10 380	42 993	36 116	19 667	(D)	6 877	2 414	9	4
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1623	Water, sewer, and utility lines	26	849	22 189	57 990	52 167	40 356	(D)	5 823	3 283	3	3
1629	Heavy construction, n.e.c.	23	610	13 525	47 709	42 388	28 606	14 423	5 322	(D)	5	11
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning	180	1 828	44 143	130 285	109 542	74 906	36 078	20 744	841	5	4
1721	Painting, paper hanging, and decorating	56	241	3 543	8 035	7 875	5 619	(D)	160	49	19	13
1731	Electrical work	108	1 163	32 129	83 051	79 194	50 955	28 603	3 857	866	6	4
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework	51	326	5 875	15 768	15 306	9 723	5 761	462	51	14	9
1742	Plastering, drywall, and insulation work	33	369	8 299	21 262	20 492	13 313	(D)	770	86	9	8
1743	Terrazzo, tile, marble, and mosaic work	*7	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-
175	Carpentering and flooring:											
1751	Carpentering	77	308	3 851	12 715	11 560	6 906	4 732	1 155	*90	21	19
1752	Floor laying and other floorwork	25	130	2 166	8 144	8 049	4 232	3 908	95	*44	19	18
1761	Roofing and sheet metal work	74	724	14 446	43 973	42 149	23 562	20 625	1 825	*1 025	9	8
1771	Concrete work	74	308	5 381	19 753	18 730	11 131	7 828	1 024	373	15	14
1781	Water well drilling	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	*7	60	(D)	3 449	3 373	1 928	1 445	76	*49	15	13
1793	Glass and glazing work	*12	53	675	2 340	(D)	774	1 324	(D)	37	33	-
1794	Excavating and foundation work	46	219	3 635	10 274	9 421	6 978	(D)	853	324	13	9
1795	Wrecking and demolition work	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(W)	-
1796	Installing building equipment, n.e.c.	10	78	2 062	6 158	5 984	5 247	(D)	174	87	9	17
1799	Special trade contractors, n.e.c.	46	143	1 929	6 312	6 127	4 098	2 624	185	124	20	16
6552	Subdividers and developers, n.e.c.	15	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-

Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.

Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	YOUNGSTOWN-WARREN SMSA											
	Construction Industries and subdividers and developers	832	6 875	120 030	440 427	357 984	232 317	134 129	82 444	7 814	3	3
15,16,17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	100	441	5 879	32 926	23 441	11 735	12 238	9 485	264	19	23
1522	Other residential buildings	19	44	550	6 081	(D)	1 876	936	(D)	(D)	39	-
1531	Operative builders	*7	*31	*652	*6 343	*5 139	*1 112	*4 027	*1 204	*45	56	62
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	17	195	5 635	33 085	18 531	12 018	(D)	14 554	247	13	8
1542	Nonresidential buildings, n.e.c.	46	519	12 328	74 748	46 264	32 735	(D)	28 484	593	6	4
18	Heavy construction general contractors:											
1611	Highway and street construction	35	532	10 488	51 432	43 307	23 298	20 064	8 125	529	6	5
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1623	Water, sewer, and utility lines	16	281	6 889	17 256	14 962	11 329	3 929	2 294	450	5	5
1629	Heavy construction, n.e.c.	4	*36	*645	3 035	(D)	*1 423	*862	(D)	*368	48	-
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning	91	997	23 451	75 556	68 623	41 326	27 755	6 933	566	5	3
1721	Painting, paper hanging, and decorating	68	474	7 294	20 105	19 255	15 031	4 590	850	*729	13	12
1731	Electrical work	52	1 057	11 578	25 892	25 000	17 888	9 423	892	579	4	8
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework	44	121	1 656	4 597	4 514	2 996	1 524	83	*96	25	31
1742	Plastering, drywall, and insulation work	39	266	5 168	12 490	12 298	7 912	(D)	*192	*157	17	14
1743	Terrazzo, tile, marble, and mosaic work	*6	*40	*890	*1 936	*1 932	*1 464	*468	(S)	-	61	52
175	Carpentering and flooring:											
1751	Carpentering	46	144	2 037	6 720	5 937	4 034	1 904	783	(S)	22	24
1752	Floor laying and other floorwork	*19	*62	*576	*3 416	*3 399	*1 691	*1 735	*17	*39	51	51
1761	Roofing and sheet metal work	43	243	4 142	11 208	10 581	7 071	(D)	*627	131	18	19
1771	Concrete work	41	196	1 749	4 592	4 328	2 763	(D)	264	(S)	32	23
1781	Water well drilling	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	7	154	1 946	3 932	(D)	2 851	1 088	(D)	*36	6	-
1793	Glass and glazing work	5	47	817	1 891	1 856	1 150	(D)	35	(D)	21	24
1794	Excavating and foundation work	70	478	7 249	20 501	18 886	14 650	4 744	1 615	2 461	9	9
1795	Wrecking and demolition work	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1796	Installing building equipment, n.e.c.	*11	116	3 158	8 979	6 722	5 203	(D)	257	(D)	23	14
1799	Special trade contractors, n.e.c.	38	251	2 509	7 762	7 287	4 927	3 790	475	264	36	19
6552	Subdividers and developers, n.e.c.	*5	10	140	592	444	327	(D)	148	(D)	24	23



Wisconsin

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SUMMARY OF FINDINGS

During 1982, 27,876 establishments in Wisconsin operated primarily as general contractors or operative builders, special trade contractors, or subdividers and developers. These establishments had business receipts of \$5.0 billion.

Tables 1 and 2 of this report provide summary statistics for all establishments, establishments with paid employees, and for those with no payroll.

The 17,821 establishments in this State with no payroll accounted for about 10 percent of all business receipts for all construction establishments in Wisconsin. On the other hand, 10,055 establishments classified as "employers" accounted for 90 percent of all business receipts.

Tables 3 through 12 in this report provide considerably more detailed information for employers. In 1982, all business receipts for these establishments amounted to \$4.5 billion, of which \$4.4 billion were receipts for construction work. These establishments paid \$890 million for construction work subcontracted to others, leaving net construction receipts of about \$3.5 billion. Value added for these establishments amounted to \$2.1 billion. (See Introduction and appendixes for explanation of terms.)

Construction establishments with payroll located in Wisconsin paid \$1.4 billion for materials, components, and supplies purchased for use in construction work for others; purchased and subsequently provided to subcontractors for their use; purchased and then resold to others; and purchased and used in construction work for own account. However, materials furnished to contractors by owners of projects are not included. Payments of \$103 million were also made for selected power, fuels, and

lubricants purchased during the year from other companies or received from other establishments of the parent company.

Average employment during 1982 for construction establishments with payroll in Wisconsin was 65.9 thousand employees. Hours worked by construction workers during the first quarter of 1982 were 16.8 million hours, while hours worked during the third quarter were 23.8 million hours.

Total payroll for 1982 was \$1.2 billion. Payments of \$219 million for employer costs for fringe benefits (not included in payroll) represent such expenditures during the year as employers' Social Security contributions, unemployment compensation, pension plans, and welfare plans.

The 1982 estimates for establishments with payroll are based on a probability sample of about 172,000 construction establishments in the United States. The estimates for Wisconsin are based on a sample of about 3,700 of these establishments. Statistics for the nonemployers were based on administrative records of the Federal Government.

The statistics reported by each establishment cover all of its activities, not just construction. Therefore, aggregates of such data for a State reflect not only the primary construction activities of the establishments in the State, but also their secondary construction activities, and any nonconstruction activities.

All data shown are based on current dollars for the years specified and have not been adjusted for price changes or for inflation between 1977 and 1982.

Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
			Proprietors and working partners	All employees**	All business receipts		Proprietors and working partners	All business receipts		Proprietors and working partners	All employees**	All business receipts		
		Number				Number			Number					
		A	B	C	D	E	F	G	H	I	J	K	J	K
15,16,17	1982													
	Construction industries and subdividers and developers-----	27 876	21 780	65 892	4 993 391	17 821	17 922	494 366	10 055	3 858	65 892	4 499 025	1	1
	Construction Industries¹-----	27 437	21 395	65 789	4 952 055	17 443	17 554	457 963	9 994	3 841	65 789	4 494 092	1	1
	General building contractors and operative builders-----	5 210	3 597	16 374	1 607 848	2 862	2 858	159 716	2 348	739	16 374	1 448 132	2	2
	Heavy construction, general contractors ..	1 003	570	7 609	775 078	472	460	14 496	531	110	7 609	760 582	2	1
17	Special trade contractors-----	21 224	17 228	41 806	2 569 129	14 109	14 236	283 751	7 115	2 992	41 806	2 285 378	2	1
1711	Plumbing, heating, and air conditioning----	2 409	1 449	11 798	788 970	939	950	35 381	1 470	499	11 798	753 589	2	1
1731	Electrical work-----	1 834	1 303	6 537	391 259	966	964	25 374	868	339	6 537	365 885	6	2
6552	Subdividers and developers, n.e.c.²-----	435	383	98	41 331	378	368	36 403	57	*15	98	4 928	18	24
15,16,17	1977													
	Construction industries and subdividers and developers-----	27 004	22 178	80 680	4 738 801	15 988	16 372	376 541	11 016	5 806	80 680	4 362 260	1	1
	Construction Industries¹-----	26 710	21 800	80 449	4 682 882	15 732	15 997	341 888	10 978	5 803	80 449	4 340 994	1	1
	General building contractors and operative builders-----	5 705	4 071	25 283	1 961 431	2 235	2 282	134 112	3 470	1 789	25 283	1 827 319	2	2
	Heavy construction, general contractors ..	1 105	667	9 765	637 446	542	538	20 537	563	129	9 765	616 909	1	1
	Special trade contractors-----	19 900	17 062	45 401	2 084 005	12 955	13 177	187 239	6 945	3 885	45 401	1 896 766	1	1
	Plumbing, heating, and air conditioning----	2 371	1 760	11 895	615 993	1 010	1 025	22 616	1 361	735	11 895	593 377	2	2
	Electrical work-----	1 905	1 507	6 320	302 829	1 078	1 099	20 901	827	408	6 320	281 928	3	2
6552	Subdividers and developers, n.e.c.²-----	299	378	(S)	55 924	256	375	34 653	43	3	(S)	(S)	-	-

¹For establishments without payroll, may also include data for construction establishments not classified to two-digit industry detail.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. Summary Statistics for Establishments With and Without Payroll by Receipts Size Class: 1982 and 1977

Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	All business receipts	Number	Proprietors and working partners	All business receipts	Number	Proprietors and working partners	All employees**	All business receipts		
	A	B	C	D	E	F	G	H	I	J	K	J	K
1982													
The State	27 876	21 780	65 892	4 993 391	17 821	17 922	494 366	10 055	3 858	65 892	4 499 025	1	1
\$10,000,000 or more	52	4	10 016	(D)	1	2	(D)	51	2	10 016	1 077 394	(W)	(W)
\$5,000,000 to \$9,999,999	82	2	5 285	(D)	—	—	—	82	2	5 285	(D)	(W)	—
\$2,500,000 to \$4,999,999	157	1	5 746	(D)	1	1	(D)	156	—	5 746	1 090 417	(W)	(W)
\$1,000,000 to \$2,499,999	517	23	10 289	2 996 460	13	14	49 883	504	*9	10 289	778 766	1	3
\$500,000 to \$999,999	717	83	7 600	498 855	36	34	24 910	681	49	7 600	473 945	4	4
\$250,000 to \$499,999	1 353	390	8 108	469 226	131	124	43 753	1 222	266	8 108	425 473	4	5
\$100,000 to \$249,999	3 408	1 767	10 421	541 025	646	670	94 908	2 762	1 097	10 421	446 117	4	4
\$50,000 to \$99,999	3 439	2 571	4 490	245 574	1 486	1 561	102 727	1 953	1 010	4 490	142 847	5	4
\$25,000 to \$49,999	3 607	3 128	2 288	129 738	2 352	2 418	82 173	1 255	710	2 288	47 565	14	6
Less than \$25,000	14 542	13 810	1 647	112 512	13 155	13 098	96 012	1 387	712	1 647	16 500	5	5
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	3 974	3 964	62 635	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	3 118	3 101	20 992	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999	(NA)	(NA)	(NA)	(NA)	3 419	3 401	9 741	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000	(NA)	(NA)	(NA)	(NA)	2 644	2 632	2 644	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1977													
The State	27 004	22 178	80 680	4 738 801	15 968	16 372	376 541	11 016	5 806	80 680	4 362 260	1	1
\$10,000,000 or more	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000,000 to \$9,999,999 ²	103	2	15 496	1 154 145	—	—	—	103	2	15 496	1 154 145	1	(W)
\$2,500,000 to \$4,999,999	191	16	8 170	652 050	6	8	20 042	185	8	8 170	632 008	(W)	1
\$1,000,000 to \$2,499,999	542	41	13 246	815 072	14	12	18 215	528	29	13 246	796 857	1	2
\$500,000 to \$999,999	872	238	10 100	600 132	64	75	44 320	808	163	10 100	555 812	2	3
\$250,000 to \$499,999	1 576	661	11 137	545 262	102	113	34 763	1 474	548	11 137	510 499	3	4
\$100,000 to \$249,999	3 502	2 161	13 190	548 541	369	419	55 567	3 133	1 742	13 190	492 974	3	3
\$50,000 to \$99,999	2 987	2 407	5 342	212 842	865	968	58 595	2 122	1 439	5 342	154 247	6	6
\$25,000 to \$49,999	3 029	2 837	2 226	106 928	1 676	1 779	58 304	1 353	1 058	2 226	48 624	8	8
Less than \$25,000	14 202	13 816	(S)	103 830	12 892	12 998	86 735	(S)	(S)	(S)	(S)	—	—
\$10,000 to \$24,999	4 312	4 122	1 201	67 995	3 485	3 565	53 954	827	557	1 201	14 041	12	11
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	2 999	3 002	20 241	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999	(NA)	(NA)	(NA)	(NA)	3 744	3 760	10 610	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500	(NA)	(NA)	(NA)	(NA)	2 664	2 671	1 930	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²Data for this size class includes establishments with receipts of \$10,000,000 or more, which were not tabulated separately.

Table 3. General Statistics for Establishments With Payroll by Industry: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1982							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Total construction receipts	Net construction receipts†
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
	Construction Industries and subdividers and developers -----	10 055	65 892	52 996	1 218 540	945 721	82 416	4 361 699	3 471 757
15,16, 17	Construction Industries:								
15	General building contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	1 509	5 471	4 352	61 518	47 305	6 043	324 319	232 736
1522	Other residential buildings -----	129	776	599	16 333	11 996	796	107 814	47 781
1531	Operative builders -----	102	542	270	8 782	3 514	414	161 989	39 872
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	145	2 691	2 050	59 624	42 522	3 414	259 789	144 349
1542	Nonresidential buildings, n.e.c. -----	463	6 894	5 068	145 883	96 401	8 365	648 965	351 867
16	Heavy construction general contractors:								
1611	Highway and street construction -----	252	2 821	2 344	61 134	48 861	4 020	297 066	235 780
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	23	988	925	37 568	35 894	2 474	131 490	(D)
1623	Water, sewer, and utility lines -----	195	2 581	2 190	55 939	46 513	3 756	200 115	177 472
1629	Heavy construction, n.e.c. -----	61	1 219	1 060	29 357	25 492	1 846	116 325	97 093
17	Special trade contractors:								
1711	Plumbing, heating, and air conditioning -----	1 470	11 798	9 213	247 813	194 539	15 442	733 477	650 230
1721	Painting, paper hanging, and decorating -----	540	2 591	2 288	32 799	27 567	2 803	77 243	74 819
1731	Electrical work -----	868	6 537	5 268	131 681	104 280	8 597	354 985	344 301
174	Masonry, plastering, and tile setting:								
1741	Masonry, stone setting, and other stonework -----	480	1 975	1 761	24 162	21 477	2 034	73 395	71 238
1742	Plastering, drywall, and insulation work -----	399	2 449	2 000	42 429	31 991	2 609	116 178	110 526
1743	Terrazzo, tile, marble, and mosaic work -----	80	521	402	9 395	6 889	636	32 177	31 296
175	Carpentering and flooring:								
1751	Carpentering -----	900	2 819	2 431	35 395	29 319	3 158	123 533	104 836
1752	Floor laying and other floorwork -----	155	566	472	7 578	5 637	630	23 494	22 613
1761	Roofing and sheet metal work -----	561	3 482	2 894	58 869	46 041	4 316	178 655	170 744
1771	Concrete work -----	546	2 371	1 992	30 327	24 658	2 704	114 485	109 218
1781	Water well drilling -----	80	297	216	4 035	2 977	332	16 447	16 016
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	54	502	406	10 501	8 452	620	24 599	22 858
1793	Glass and glazing work -----	38	548	349	13 025	7 886	539	35 095	34 483
1794	Excavating and foundation work -----	534	2 798	2 358	43 564	36 863	3 655	168 088	151 387
1795	Wrecking and demolition work -----	31	190	157	2 115	1 746	249	6 369	5 864
1796	Installing building equipment, n.e.c. -----	93	1 084	872	30 987	24 697	1 574	80 318	77 632
1799	Special trade contractors, n.e.c. -----	286	1 278	1 018	16 744	11 966	1 340	52 363	(D)
6552	Subdividers and developers, n.e.c. -----	57	98	35	976	233	35	12 921	2 341

†Land receipts for SIC 1531 were \$9,178; for SIC 6552 were \$1,690.

1982—Con.						1977			Relative standard error of estimate (percent) for column—			SIC code
Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Rental payments for machinery, equipment, and structures	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
2 091 361	1 506 854	889 942	54 810	80 237	1 024 640	80 680	4 205 483	1 916 136	1	1	2	15,16, 17
												15
117 457	125 618	91 583	1 990	3 454	44 193	10 543	599 448	186 717	5	5	8	152
26 333	23 097	60 032	224	699	8 624	1 082	88 347	16 746	7	11	4	1521 1522
23 416	17 442	22 132	331	4 249	33 544	1 976	186 091	46 405	11	12	1	1531
88 047	61 408	115 440	1 403	2 447	38 053	3 962	302 254	109 381	3	3	2	154
214 858	154 989	297 098	3 644	7 069	86 685	7 720	559 578	195 292	2	2	2	1541 1542
												16
131 692	110 136	61 286	9 611	11 386	162 014	4 052	261 201	128 831	3	2	1	1611
(D)	(D)	(D)	1 110	(D)	31 502	700	69 219	21 682	1	—	—	162
118 394	61 777	22 643	5 718	4 857	90 996	3 752	180 721	98 480	4	3	7	1622 1623
77 793	25 107	19 232	1 193	3 537	37 176	1 261	93 815	41 635	4	2	3	1629
												17
377 945	292 396	83 247	6 928	9 057	117 934	11 895	587 307	282 979	2	1	3	1711
57 954	18 484	2 424	960	1 338	11 699	2 292	57 194	43 228	9	7	12	1721
210 843	144 358	10 684	2 392	4 299	58 024	6 320	275 535	166 562	6	2	4	1731
43 588	28 298	2 157	745	1 335	21 562	3 004	104 609	59 322	7	6	10	174
77 113	47 402	5 651	1 099	1 242	14 628	3 254	116 223	72 099	5	4	10	1741 1742
18 145	14 210	881	159	300	2 608	396	15 778	9 977	9	9	14	1743
63 902	42 861	18 696	790	2 923	24 224	3 060	92 763	56 956	6	6	18	175
12 708	10 538	881	195	252	3 237	934	35 975	19 102	10	13	35	1751 1752
104 082	73 114	7 911	1 933	2 921	27 203	4 451	166 516	91 058	4	4	7	1761
61 142	49 695	5 267	1 053	2 848	41 023	2 880	114 647	60 660	7	7	9	1771
9 238	6 858	431	149	78	9 520	580	29 597	16 282	17	18	36	1781
16 382	7 452	1 741	475	796	7 486	338	10 255	7 358	8	7	12	179
20 281	19 203	(S)	392	429	4 642	456	19 929	12 077	9	5	3	1791 1793
112 246	41 340	16 700	9 012	6 974	116 993	2 621	102 717	76 071	6	5	8	1794
5 247	(D)	*505	185	(D)	1 849	114	3 119	2 966	27	30	—	1795
63 590	16 929	2 685	1 281	1 775	14 176	790	42 639	29 936	3	3	5	1796
(D)	20 479	(D)	1 774	1 616	13 109	2 016	77 949	58 623	11	—	4	1799
1 906	752	580	*56	136	1 926	(S)	(S)	(S)	18	26	36	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1982 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1982	1977	1972	1967	Relative standard error of estimate (percent)			
					1982	1977	1972	1967
Number of establishments in business during year	10 055	11 016	9 671	8 938	2	2	3	2
Number of establishments in business at end of year	9 779	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Proprietors and working partners	3 858	5 806	5 830	6 169	4	4	4	4
All employees**	65 892	80 680	69 697	63 387	1	1	2	1
Construction workers:								
March	42 241	53 042	44 770	44 424	1	1	2	1
May	53 877	70 423	57 267	54 302	1	1	2	1
August	58 478	78 079	66 737	62 659	1	1	2	1
November	52 911	71 878	61 344	55 448	2	1	2	1
Average	52 996	68 415	58 519	54 969	1	1	2	1
Other employees:								
March	12 842	11 663	10 632	8 271	2	2	2	2
Construction worker hours (thousands):								
January to March	16 759	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
April to June	20 876	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
July to September	23 792	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
October to December	20 987	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Total hours worked	82 416	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Payroll, all employees	1 218 540	1 117 593	728 148	487 246	1	1	2	1
Payroll, construction workers	945 721	920 932	599 507	406 651	1	1	2	1
Payroll, other employees	272 819	196 661	128 641	80 647	1	1	2	1
First quarter payroll, all employees	248 844	204 377	(NA)	(NA)	1	1	(NA)	(NA)
Employer costs for fringe benefits	218 534	211 139	(NA)	(NA)	1	1	(NA)	(NA)
Legally required expenditures	161 965	111 758	(NA)	(NA)	1	1	(NA)	(NA)
Voluntary expenditures	56 569	99 382	(NA)	(NA)	1	1	(NA)	(NA)
All business receipts	4 499 025	4 362 260	2 541 604	1 796 515	1	1	2	1
Total construction receipts	4 361 699	4 205 483	2 464 400	1 756 229	1	1	2	1
Receipts for work subcontracted in from others	923 855	960 195	437 579	276 969	2	1	2	3
Land receipts ¹	10 868	(NA)	(NA)	(NA)	16	(NA)	(NA)	(NA)
Other business receipts	126 458	156 776	77 204	40 600	2	5	4	6
Net construction receipts†	3 471 757	3 365 134	1 998 542	1 385 860	1	1	2	1
Value added††	2 091 361	1 916 136	1 200 259	847 039	1	1	2	1
Selected payments	2 396 796	2 403 249	1 318 663	944 325	1	1	2	1
Materials, components, and supplies*	1 403 418	1 489 178	852 805	573 974	1	1	2	1
Construction work subcontracted to others	889 942	840 349	465 858	370 406	1	2	3	2
Selected power, fuels, and lubricants	103 436	73 722	(NA)	(NA)	2	1	(NA)	(NA)
Electricity	11 080	7 596	(NA)	(NA)	2	2	(NA)	(NA)
Natural gas	5 896	4 406	(NA)	(NA)	4	3	(NA)	(NA)
Gasoline and diesel fuel (including gasohol)	77 569	52 643	(NA)	(NA)	2	1	(NA)	(NA)
Other, including lubricating oils and greases	8 889	9 079	(NA)	(NA)	2	3	(NA)	(NA)
Storage capacity for fuels (thousand gallons) ³	1 794	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Rental payments for machinery, equipment, and structures	54 810	44 772	(NA)	(NA)	2	1	(NA)	(NA)
For machinery and equipment	38 431	35 551	24 165	17 980	2	1	3	2
For structures	16 379	9 222	(NA)	(NA)	3	2	(NA)	(NA)
Selected purchased services	77 669	77 432	(NA)	(NA)	1	6	(NA)	(NA)
Communication services	20 814	18 269	(NA)	(NA)	2	8	(NA)	(NA)
Repairs to structures and related facilities	4 549	3 582	(NA)	(NA)	4	5	(NA)	(NA)
Repairs to machinery and equipment	52 306	55 582	(NA)	(NA)	2	7	(NA)	(NA)
Ownership of construction projects:								
Total construction receipts	4 361 699	4 205 483	2 464 400	1 756 229	1	1	2	1
Government owned	989 178	710 781	685 104	558 791	3	1	3	4
Privately owned	3 372 520	3 494 702	1 779 296	1 197 438	1	1	2	1

¹Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

²For 1967 and 1972, includes data for power, fuels, and lubricants.

³Data were collected only for establishments classified as heavy construction contractors.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1982 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1982	1977	1972	1967	Relative standard error of estimate (percent)			
					1982	1977	1972	1967
STRUCTURES, MACHINERY, AND EQUIPMENT								
Beginning-of-year gross book value of depreciable assets -----	977 521	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	80 237	133 668	70 485	44 930	2	2	4	3
New -----	59 115	108 983	54 683	35 069	2	2	5	3
Used -----	21 121	24 685	15 802	9 861	4	4	8	6
Retirements and disposition of depreciable assets -----	33 118	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	1 024 640	764 197	524 954	(NA)	2	1	7	(NA)
Depreciation charges during year -----	122 458	74 183	52 300	(NA)	2	1	7	(NA)
Structures, Additions, and Related Facilities								
Beginning-of-year gross book value of depreciable assets -----	172 118	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	10 538	20 970	13 112	6 398	3	10	12	9
New structures and related facilities -----	7 599	18 572	9 562	4 783	4	9	12	9
Used structures and related facilities -----	2 938	2 398	3 550	1 615	5	12	13	9
Retirements and disposition of depreciable assets -----	3 189	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	179 468	149 223	95 659	(NA)	2	3	5	(NA)
Depreciation charges during year -----	13 363	7 469	5 966	(NA)	3	3	14	(NA)
Machinery and Equipment								
Beginning-of-year gross book value of depreciable assets -----	805 402	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	69 698	112 698	57 373	38 532	2	3	7	4
New machinery and equipment, including automobiles and trucks -----	51 516	90 411	45 121	30 286	3	2	5	3
New automobiles and trucks, intended primarily for highway use -----	19 955	37 623	(NA)	(NA)	4	3	(NA)	(NA)
Used machinery and equipment, including automobiles and trucks -----	18 182	22 287	12 252	8 246	5	4	9	6
Retirements and disposition of depreciable assets -----	29 929	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	845 172	614 974	429 295	(NA)	2	1	8	(NA)
Depreciation charges during year -----	109 095	66 714	46 334	(NA)	2	1	7	(NA)

Table 6. Value of Inventories for Establishments With Payroll: 1982 and 1981

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	10 055	2
Total construction receipts	4 361 699	1
Establishments with inventories:		
Number	3 272	5
Total construction receipts	2 423 255	1
Inventories¹:		
End of 1982, total	133 187	3
Value for establishments with LIFO reserve	8 784	5
Amount of LIFO reserve	2 660	12
Value for establishments with no LIFO reserve	124 403	4
End of 1981, total	118 613	4
Value for establishments with LIFO reserve	9 039	6
Amount of LIFO reserve	2 427	13
Value for establishments with no LIFO reserve	109 574	3
Establishments with no inventories:		
Number	6 783	2
Total construction receipts	1 938 444	2

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								1,000 employee or more
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	
1982										
Number of establishments	10 055	6 805	1 872	814	417	102	34	8	2	
All employees**	65 892	13 800	11 966	10 877	12 217	6 661	4 959	2 372	3 038	(D)
Payroll, all employees	1 218 540	140 844	169 369	192 536	270 819	167 114	126 002	69 928	81 927	(D)
Construction worker hours (thousands)	82 416	14 923	13 589	12 425	15 757	9 162	7 250	3 744	5 563	(D)
All business receipts	4 499 025	680 539	591 870	665 305	1 003 779	622 393	485 937	449 202	(D)	(D)
Total construction receipts	4 361 699	669 690	570 560	641 712	969 207	601 259	480 147	429 124	(D)	(D)
Net construction receipts†	3 471 757	561 979	503 151	542 607	746 023	445 587	381 782	290 627	(D)	(D)
Value added††	2 091 361	318 707	297 669	330 024	477 554	281 636	227 283	158 487	(D)	(D)
Payments for materials, components, supplies, and fuels	1 506 854	250 980	221 388	234 959	301 934	185 084	160 289	152 218	(D)	(D)
Payments for construction work subcontracted to others	889 942	107 710	67 409	99 104	223 184	155 672	98 365	138 497	(D)	(D)
Rental payments for machinery, equipment, and structures	54 810	5 887	7 233	7 514	12 838	7 648	8 255	5 434	(D)	(D)
Capital expenditures, other than land	80 237	11 256	10 557	10 571	21 945	7 562	11 010	7 335	(D)	(D)
End-of-year gross book value of depreciable assets	1 024 640	184 504	156 365	158 610	252 055	111 807	90 405	26 285	44 606	(D)
1977										
All employees**	80 680	14 643	14 238	14 217	16 094	8 344	5 720	7 425	(D)	(D)
Total construction receipts	4 205 483	693 172	619 182	645 989	896 568	554 590	386 142	409 840	(D)	(D)
Value added††	1 916 136	290 994	274 760	296 793	444 784	242 387	168 608	197 810	(D)	(D)
1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	1	2	5	3	2	(W)	(W)	(W)	(W)	-
Net construction receipts†	1	3	4	3	1	(W)	(W)	(W)	(W)	-
Capital expenditures, other than land	2	7	9	8	4	(W)	(W)	(W)	(W)	-

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

Table 8. Selected Statistics for Establishments With Payroll by Receipts Size Class: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with all business receipts of—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1982											
Number of establishments	10 055	1 387	1 255	1 953	2 762	1 222	681	504	156	82	51
All employees**	65 892	1 647	2 288	4 490	10 421	8 108	7 600	10 289	5 746	5 285	10 016
Payroll, all employees	1 218 540	4 883	12 677	36 875	121 911	120 141	138 074	221 025	142 767	138 636	281 549
Construction worker hours (thousands)	82 416	1 292	2 326	4 283	11 716	9 233	8 955	12 779	7 892	7 497	16 439
All business receipts	4 499 025	16 500	47 565	142 847	446 117	425 473	473 945	778 766	1 090 417	(D)	1 077 394
Total construction receipts	4 361 699	16 205	47 030	141 117	439 798	411 699	461 305	745 754	515 740	540 470	1 042 580
Net construction receipts†	3 471 757	14 933	41 012	132 075	399 523	362 887	395 265	616 315	402 401	404 515	702 830
Value added††	2 091 361	9 362	23 270	77 370	229 191	215 220	243 418	380 531	248 455	250 980	413 560
Payments for materials, components, supplies, and fuels	1 506 854	5 745	18 150	56 007	176 083	159 823	162 323	264 197	173 332	167 107	324 084
Payments for construction work subcontracted to others	889 942	1 271	6 018	9 042	40 275	48 812	66 040	129 439	113 339	135 955	339 750
Rental payments for machinery, equipment, and structures	54 810	289	479	1 385	4 676	4 905	6 003	9 876	6 337	5 865	14 991
Capital expenditures, other than land	80 237	161	858	3 203	7 632	7 497	8 012	15 077	9 182	10 927	17 684
End-of-year gross book value of depreciable assets	1 024 640	7 488	18 596	43 088	132 590	100 626	121 753	182 976	116 348	125 593	175 577
1977											
All employees**	80 680	(S)	2 226	5 342	13 190	11 137	10 100	13 246	8 170	115 496	(NA)
Total construction receipts	4 205 483	(S)	48 116	151 736	483 017	496 456	534 117	756 237	600 658	1 118 332	(NA)
Value added††	1 916 136	(S)	28 067	80 964	236 617	229 525	240 447	358 237	261 549	1 471 800	(NA)
1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	5	14	5	4	4	4	1	(W)	(W)	(W)
Net construction receipts†	1	6	8	4	4	5	4	2	(W)	(W)	(W)
Capital expenditures, other than land	2	34	16	14	9	10	10	6	(W)	(W)	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

*Data for this size class includes establishments with receipts of \$10,000,000 or more, which were not tabulated separately in 1977.

Table 9. Construction Receipts for Establishments With Payroll by Type of Construction: 1982 and 1977

Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Construction receipts			Relative standard error of estimate (percent) for column—		
	Total	New construction ¹	Maintenance and repair	A	B	C
	A	B	C			
1982						
Total construction receipts†	4 361 699	3 324 310	1 037 389	1	1	1
Building construction	3 121 638	2 357 949	763 689	1	1	1
Single-family houses	721 307	507 791	213 515	3	3	3
Single-family houses, detached	626 674	429 862	196 812	3	4	4
Single-family houses, attached	94 632	77 928	16 703	5	6	8
Apartment buildings with two or more apartments	197 912	166 779	31 133	5	6	6
Other residential buildings	50 930	37 584	13 346	4	4	7
Office and bank buildings	422 464	324 061	98 403	1	1	2
Office buildings	346 442	263 981	82 461	1	1	2
Bank buildings and other financial institutions	76 022	60 079	15 942	3	3	3
Farm buildings	113 825	93 945	19 880	4	5	7
Industrial buildings and warehouses	804 568	597 219	207 348	1	1	2
Industrial buildings	676 424	492 226	184 197	1	1	2
Warehouses	128 144	104 993	23 150	2	3	3
Stores, restaurants, public garages, and automobile service stations	342 984	267 705	75 279	2	3	4
Religious buildings	58 788	37 146	21 642	3	2	7
Educational buildings	147 177	108 765	38 412	2	3	4
Hospitals and institutional buildings	214 499	178 321	36 178	1	1	3
Amusement, social, and recreational buildings	21 908	18 620	3 287	6	8	14
Other nonresidential buildings	25 276	20 013	5 266	11	13	19
Nonbuilding construction	995 116	773 161	221 955	1	1	2
Highways, streets, and related facilities	340 143	231 500	108 643	2	2	4
Bridges, tunnels, and elevated highways	138 936	121 267	17 668	(W)	(W)	3
Power and communication transmission lines, towers, and related facilities	33 344	28 090	5 254	5	5	9
Sewers, water mains, and related facilities	166 328	139 440	26 887	3	4	7
Sewers, sewer lines, and related facilities	116 340	99 109	17 231	4	5	5
Water mains and related facilities	49 987	40 330	9 656	6	5	18
Pipeline, other than sewer or water lines	43 520	27 100	16 419	5	7	1
Sewage treatment and water treatment plants	84 741	73 022	11 718	2	2	3
Sewage treatment plants	77 325	67 142	10 182	2	2	3
Water treatment plants	7 416	5 880	1 535	4	2	13
Heavy industrial facilities	108 909	92 112	16 796	2	2	6
Blast furnaces, petroleum refineries, and chemical complexes	15 113	10 651	4 461	7	2	22
Power plants	93 796	81 460	12 335	2	2	1
Power plants, nuclear	11 725	7 686	4 038	12	18	2
Power plants, except nuclear	82 070	73 774	8 296	(W)	(W)	1
Other nonbuilding construction	79 195	60 630	18 570	6	6	13
Construction work, n.s.k.	244 944	193 199	51 744	4	4	6
1977						
Total construction receipts†	4 205 483	3 502 054	703 430	1	1	2
Building construction	3 219 298	2 674 484	544 814	1	1	2
Single-family houses	1 241 699	1 038 438	203 261	2	2	4
Apartment buildings with two or more apartments	227 122	202 348	24 774	4	4	7
Other residential buildings	37 058	25 480	11 578	3	4	4
Office and bank buildings	231 536	197 616	33 920	3	4	3
Farm buildings	104 280	81 650	22 630	6	7	7
Industrial buildings and warehouses	676 627	543 371	133 256	1	1	2
Stores, restaurants, public garages, and automobile service stations	217 718	178 965	38 753	2	2	4
Religious buildings	46 122	31 114	15 008	2	1	4
Educational buildings	150 341	123 389	26 952	1	1	2
Hospitals and institutional buildings	238 097	212 515	25 582	1	1	2
Amusement, social, and recreational buildings	33 123	26 902	6 221	3	3	9
Other nonresidential buildings	15 577	12 695	2 882	11	9	29
Nonbuilding construction	790 492	656 601	133 891	1	1	3
Highways, streets, and related facilities	250 860	181 568	69 292	1	1	2
Bridges, tunnels, and elevated highways	79 871	71 554	8 317	(W)	1	(W)
Power and communication transmission lines, towers, and related facilities	45 896	41 627	4 269	4	3	13
Sewers, water mains, and related facilities	154 382	141 708	12 674	2	2	5
Sewage treatment and water treatment plants	91 194	89 230	1 964	2	2	7
Heavy industrial facilities	61 250	47 361	13 889	6	1	26
Other nonbuilding construction	107 039	83 553	23 486	4	4	6
Construction work, n.s.k.	195 752	170 772	24 980	4	4	5

¹Includes data for work done as additions and alterations.

Table 10. Quarterly Construction Worker Hours and Employment for Establishments With

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction Industries and subdividers and developers -----	10 055	52 996	82 416	42 241	16 759	53 877	20 876
15,16,17	Construction Industries:							
15	General building contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	1 509	4 352	6 043	3 501	1 246	4 211	1 489
1522	Other residential buildings -----	129	599	796	641	243	623	212
1531	Operative builders -----	102	270	414	257	100	273	101
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses -----	145	2 050	3 414	1 716	701	2 144	889
1542	Nonresidential buildings, n.e.c. -----	463	5 068	8 365	4 180	1 748	5 133	2 095
16	Heavy construction general contractors:							
1611	Highway and street construction -----	252	2 344	4 020	703	267	2 650	1 000
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction -----	23	925	2 474	452	(D)	1 014	676
1623	Water, sewer, and utility lines -----	195	2 190	3 756	1 205	475	2 347	981
1629	Heavy construction, n.e.c. -----	61	1 060	1 846	806	342	1 112	448
17	Special trade contractors:							
1711	Plumbing, heating, and air conditioning -----	1 470	9 213	15 442	9 377	4 082	9 312	3 895
1721	Painting, paper hanging, and decorating ----	540	2 288	2 803	1 676	550	2 352	730
1731	Electrical work -----	868	5 268	8 597	4 968	2 079	5 071	2 112
174	Masonry, plastering, and tile setting:							
1741	Masonry, stone setting, and other stonework -----	480	1 761	2 034	1 186	341	1 836	544
1742	Plastering, drywall, and insulation work ----	399	2 000	2 609	1 951	674	1 887	637
1743	Terrazzo, tile, marble, and mosaic work ----	80	402	636	367	146	407	163
175	Carpentering and flooring:							
1751	Carpentering -----	900	2 431	3 158	1 966	642	2 385	805
1752	Floor laying and other floorwork -----	155	472	630	475	142	489	163
1761	Roofing and sheet metal work -----	561	2 894	4 316	1 973	749	2 976	1 085
1771	Concrete work -----	546	1 992	2 704	800	300	2 083	701
1781	Water well drilling -----	80	216	332	181	74	245	100
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	54	406	620	335	130	387	146
1793	Glass and glazing work -----	38	349	539	333	137	345	128
1794	Excavating and foundation work -----	534	2 358	3 655	1 433	547	2 447	926
1795	Wrecking and demolition work -----	31	157	249	138	61	144	54
1796	Installing building equipment, n.e.c. -----	93	872	1 574	911	413	911	403
1799	Special trade contractors, n.e.c. -----	246	1 612	1 340	683	(D)	1 058	371
6552	Subdividers and developers, n.e.c. -----	57	30	30	22	(S)	30	*9

¹Sum of construction workers during pay periods including 12th of March, May, August, and November.

Payroll by Industry: 1982

July to September		October to December		Relative standard error of estimate (percent) for column—										SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
58 478	23 792	52 911	20 987	1	1	1	1	1	1	1	1	2	2	15,16,17
														15
4 700	1 722	4 285	1 584	5	5	5	8	5	7	5	7	5	7	152
679	218	413	122	5	7	4	6	5	8	7	9	9	9	1521
													16	1522
269	104	261	108	14	16	14	21	14	20	13	18	15	20	1531
2 050	892	2 253	932	3	3	3	4	3	3	3	4	3	3	154
5 541	2 370	5 263	2 151	2	2	2	2	2	2	2	2	2	3	1541
													3	1542
														16
3 499	1 715	2 455	1 036	3	3	6	8	4	4	3	3	3	3	1611
														162
1 341	911	879	(D)	(W)	(W)	(W)	-	1	1	(W)	(W)	1	-	1622
2 679	1 218	2 432	1 079	4	4	5	5	4	4	4	5	4	4	1623
1 141	541	1 160	513	3	3	2	2	4	4	5	5	3	4	1629
														17
9 135	3 819	8 516	3 644	2	2	1	2	1	2	2	2	2	3	1711
2 756	851	2 077	672	10	8	10	11	10	10	11	10	10	11	1721
5 376	2 193	5 266	2 212	7	7	4	5	4	5	9	10	10	11	1731
														174
1 869	604	1 858	544	7	8	9	12	7	10	8	10	8	11	1741
2 112	661	1 897	635	5	5	5	6	5	6	6	7	6	7	1742
407	164	409	162	8	9	9	13	8	12	9	12	8	12	1743
														175
2 624	928	2 310	781	6	7	7	10	7	9	7	9	7	9	1751
467	167	421	157	11	11	13	17	13	16	11	16	11	16	1752
3 304	1 297	3 100	1 184	5	5	5	7	6	6	6	6	4	6	1761
2 602	1 004	1 998	697	7	7	9	14	7	9	7	9	8	10	1771
212	77	198	79	16	19	18	27	17	25	17	25	17	26	1781
														179
423	159	455	183	7	8	8	12	6	8	9	10	9	12	1791
368	142	338	132	10	7	10	9	10	9	9	7	10	9	1793
2 785	1 176	2 524	1 004	6	6	8	10	7	8	6	7	6	7	1794
174	66	166	67	29	28	30	39	26	29	30	37	30	35	1795
788	375	878	382	2	3	2	3	2	4	3	4	2	3	1796
1 138	398	1 050	(D)	12	10	13	-	12	12	13	12	14	-	1799
34	(S)	45	*11	25	30	25	-	22	64	34	-	35	60	6552

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker (thousands)	Total construction receipts per employee (\$1,000)	Average per dollar of total construction receipts				
						Payroll, all employees	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Rental payments for machinery, equipment, and structures
	Construction industries and subdividers and developers	6.6	18.5	1.6	82.3	.279	.345	.204	.018	.013
15,16, 17	Construction industries:									
15	General building contractors and operative builders:									
152	General contractors, residential buildings:									
1521	Single-family houses	3.6	11.2	1.4	74.5	.190	.387	.282	.011	.006
1522	Other residential buildings	6.0	21.0	1.3	180.0	.151	.214	.557	.006	.002
1531	Operative builders	5.3	16.2	1.5	229.6	.142	.281	.357	.069	.005
154	General contractors, nonresidential buildings:									
1541	Industrial buildings and warehouses	18.6	22.2	1.7	126.7	.230	.236	.444	.009	.005
1542	Nonresidential buildings, n.e.c.	14.9	21.2	1.7	128.1	.225	.239	.458	.011	.006
16	Heavy construction general contractors:									
1611	Highway and street construction	11.2	21.7	1.7	126.7	.206	.371	.206	.038	.032
162	Heavy construction, except highway:									
1622	Bridge, tunnel, and elevated highway construction	43.0	38.0	2.7	142.2	.286	(D)	(D)	(D)	.008
1623	Water, sewer, and utility lines	13.2	21.7	1.7	91.4	.280	.309	.113	.024	.029
1629	Heavy construction, n.e.c.	20.0	24.1	1.7	109.7	.252	.216	.165	.030	.010
17	Special trade contractors:									
1711	Plumbing, heating, and air conditioning	8.0	21.0	1.7	79.6	.338	.399	.113	.012	.009
1721	Painting, paper hanging, and decorating	4.8	12.7	1.2	33.8	.425	.239	.031	.017	.012
1731	Electrical work	7.5	20.1	1.6	67.4	.371	.407	.030	.012	.007
174	Masonry, plastering, and tile setting:									
1741	Masonry, stone setting, and other stonework	4.1	12.2	1.2	41.7	.329	.386	.029	.018	.010
1742	Plastering, drywall, and insulation work	6.1	17.3	1.3	58.1	.365	.408	.049	.011	.009
1743	Terrazzo, tile, marble, and mosaic work	6.5	18.0	1.6	80.0	.292	.442	.027	.009	.005
175	Carpentering and flooring:									
1751	Carpentering	3.1	12.6	1.3	50.8	.287	.347	.151	.024	.006
1752	Floor laying and other floorwork	3.7	13.4	1.3	49.8	.323	.449	.037	.011	.008
1761	Roofing and sheet metal work	6.2	16.9	1.5	61.7	.330	.409	.044	.016	.011
1771	Concrete work	4.3	12.8	1.4	57.5	.265	.434	.046	.025	.009
1781	Water well drilling	3.7	13.6	1.5	76.1	.245	.417	.026	.005	.009
179	Miscellaneous special trade contractors:									
1791	Structural steel erection	9.3	20.9	1.5	60.6	.427	.303	.071	.032	.019
1793	Glass and glazing work	14.4	23.8	1.5	100.6	.371	.547	(S)	.012	.011
1794	Excavating and foundation work	5.2	15.6	1.6	71.3	.259	.246	.099	.041	.054
1795	Wrecking and demolition work	6.1	11.1	1.6	40.6	.332	(D)	*.079	(D)	.029
1796	Installing building equipment, n.e.c.	11.7	28.6	1.8	92.1	.386	.211	.033	.022	.016
1799	Special trade contractors, n.e.c.	4.5	13.1	1.3	51.4	.320	.391	(D)	.031	.034
6552	Subdividers and developers, n.e.c.	1.7	10.0	1.0	83.5	.334	.257	.199	.047	*.019

Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982

Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	MILWAUKEE-RACINE SCSA											
	Construction Industries and subdividers and developers..	2 940	22 987	454 272	1 500 238	1 180 664	727 609	480 600	319 574	21 518	2	1
15,16,17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	342	1 371	17 401	103 550	64 273	30 418	(D)	39 277	957	10	11
1522	Other residential buildings	48	172	2 854	17 679	8 180	5 552	(D)	9 500	23	17	24
1531	Operative builders	30	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	37	(D)	(D)	(D)	31 458	21 610	(D)	(D)	(D)	-	4
1542	Nonresidential buildings, n.e.c.	100	1 550	37 263	195 111	86 382	53 779	34 277	108 729	(D)	2	2
16	Heavy construction general contractors:											
1611	Highway and street construction	68	919	20 799	99 911	(D)	37 283	39 150	(D)	(D)	6	-
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction.....	*9	(S)	(S)	(S)	(S)	(S)	(D)	(S)	(D)	-	-
1623	Water, sewer, and utility lines	60	1 106	28 459	92 798	81 137	53 184	28 368	11 661	1 613	5	4
1629	Heavy construction, n.e.c.	*10	104	2 378	(D)	(D)	(D)	(D)	(D)	(D)	14	-
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning	457	5 092	112 639	315 786	(D)	144 595	122 669	(D)	2 625	3	-
1721	Painting, paper hanging, and decorating	167	1 125	14 656	(D)	(D)	23 658	7 067	(D)	727	18	-
1731	Electrical work	250	2 707	57 365	144 847	139 896	86 665	55 253	4 951	2 415	12	3
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework	167	929	11 455	32 637	31 226	19 501	12 262	1 411	562	11	10
1742	Plastering, drywall, and insulation work	123	923	18 729	51 438	48 298	34 773	21 743	3 140	277	8	5
1743	Terrazzo, tile, marble, and mosaic work	35	256	(D)	(D)	(D)	(D)	(D)	(D)	(D)	11	-
175	Carpentering and flooring:											
1751	Carpentering	251	951	15 926	49 277	39 540	25 981	(D)	9 737	709	9	8
1752	Floor laying and other floorwork....	64	341	4 310	11 780	11 372	6 313	5 241	*408	*197	13	15
1761	Roofing and sheet metal work	211	1 334	23 947	75 791	70 878	46 083	(D)	4 913	939	7	4
1771	Concrete work	140	555	8 147	25 460	24 075	14 603	9 718	1 385	517	10	10
1781	Water well drilling	17	93	1 596	5 190	5 062	*3 390	1 731	128	(D)	26	34
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	19	209	5 077	9 343	8 786	6 808	(D)	557	461	8	7
1793	Glass and glazing work	22	251	5 401	(D)	(D)	(D)	(D)	24	(D)	18	-
1794	Excavating and foundation work....	107	525	9 357	32 078	29 594	20 405	9 565	2 484	(D)	12	8
1795	Wrecking and demolition work	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1796	Installing building equipment, n.e.c.	52	743	22 618	55 150	53 579	45 251	(D)	1 571	1 511	3	3
1799	Special trade contractors, n.e.c.	123	724	(D)	(D)	(D)	14 388	8 447	(D)	341	20	-
6552	Subdividers and developers, n.e.c.	21	(D)	(D)	(D)	(D)	587	258	(D)	-	-	-
	MILWAUKEE SMSA											
	Construction Industries and subdividers and developers..	2 600	21 306	423 296	1 387 869	1 091 786	674 164	443 809	296 083	20 200	3	1
15,16,17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	299	1 204	15 609	94 563	57 487	26 761	31 390	37 076	750	8	12
1522	Other residential buildings	43	143	2 207	14 900	6 594	4 609	(D)	8 307	23	16	26
1531	Operative builders	27	115	2 213	14 349	7 033	*3 886	3 281	7 316	552	19	28
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	33	576	13 575	54 341	26 784	18 298	(D)	27 557	259	5	4
1542	Nonresidential buildings, n.e.c.	93	1 466	35 084	186 014	81 444	51 073	32 042	104 570	1 922	2	2

Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	MILWAUKEE SMSA—Con.											
15,16,17	Construction Industries—Con.											
16	Heavy construction general contractors:											
1611	Highway and street construction -----	63	804	17 213	82 170	62 349	30 924	32 656	19 822	2 179	7	7
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	*9	(S)	(S)	(S)	(S)	(S)	(D)	(S)	(D)	-	-
1623	Water, sewer, and utility lines -----	48	982	25 616	83 104	72 724	47 904	25 141	10 380	1 548	5	3
1629	Heavy construction, n.e.c. -----	*9	103	2 341	8 474	7 708	5 971	(D)	766	(D)	14	3
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning -----	405	4 842	107 392	298 453	251 094	136 587	115 878	47 359	2 555	3	2
1721	Painting, paper hanging, and decorating -----	149	1 090	14 290	30 941	29 888	22 997	6 947	1 053	675	18	11
1731	Electrical work -----	221	2 520	53 399	135 735	131 031	80 878	52 175	4 704	2 288	13	3
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework -----	148	850	10 354	28 900	27 578	17 651	10 464	1 322	491	12	10
1742	Plastering, drywall, and insulation work -----	105	876	18 056	48 459	45 399	33 084	20 401	3 060	277	7	6
1743	Terrazzo, tile, marble, and mosaic work -----	34	250	4 681	15 034	(D)	7 945	7 051	(D)	(D)	11	-
175	Carpentering and flooring:											
1751	Carpentering -----	229	910	15 567	47 552	38 053	25 075	(D)	9 499	700	10	8
1752	Floor laying and other floorwork-----	54	331	4 205	11 430	11 022	6 036	5 163	*408	*197	14	16
1761	Roofing and sheet metal work -----	183	1 155	21 139	68 203	63 599	41 394	24 949	4 604	682	7	5
1771	Concrete work -----	109	473	7 296	22 269	20 936	12 795	8 385	1 333	517	12	11
1781	Water well drilling -----	17	93	1 596	5 190	5 062	*3 390	1 731	128	(D)	26	34
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	19	209	5 077	9 343	8 786	6 808	(D)	557	461	8	7
1793	Glass and glazing work -----	20	242	5 174	16 266	16 244	9 263	8 437	*22	184	18	9
1794	Excavating and foundation work -----	92	475	8 788	29 897	27 448	18 418	9 361	2 449	1 136	12	9
1795	Wrecking and demolition work -----	*15	111	1 389	3 054	2 633	2 501	(D)	*421	(D)	40	21
1796	Installing building equipment, n.e.c. -----	44	720	22 242	53 513	51 980	43 995	(D)	1 533	1 511	2	2
1799	Special trade contractors, n.e.c. -----	116	698	7 813	22 458	21 673	13 992	8 101	785	341	20	15
6552	Subdividers and developers, n.e.c. -----	20	30	284	950	(D)	539	239	(D)	-	30	-
	MINNEAPOLIS-ST. PAUL, MINN.-WIS., SMSA											
	Construction Industries and subdividers and developers..	4 500	47 686	1 065 849	4 114 017	2 956 309	1 780 415	1 276 588	1 157 709	107 742	1	1
15,16,17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	754	3 308	46 411	(D)	171 193	95 933	87 363	(D)	2 433	5	5
1522	Other residential buildings -----	50	381	8 817	53 598	25 439	13 236	12 620	28 159	600	6	3
1531	Operative builders -----	168	1 377	25 626	201 936	110 213	63 419	48 208	91 723	2 012	7	6
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	54	748	17 137	103 051	49 325	23 532	26 230	53 726	295	7	4
1542	Nonresidential buildings, n.e.c. -----	169	4 557	120 255	884 288	388 937	296 395	118 281	495 352	(D)	2	1
16	Heavy construction general contractors:											
1611	Highway and street construction -----	103	2 156	49 508	224 276	167 676	67 615	104 797	56 600	5 623	3	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	4	(D)	(D)	4 826	(D)	(D)	4 384	(D)	(D)	-	-
1623	Water, sewer, and utility lines -----	94	1 925	47 703	184 722	147 328	79 842	68 376	37 394	7 330	4	4
1629	Heavy construction, n.e.c. -----	45	4 128	89 344	352 200	(D)	(D)	143 309	(D)	(D)	1	-

Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.

Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	MINNEAPOLIS-ST. PAUL, MINN.-WIS., SMSA—Con.											
15,16,17	Construction Industries—Con.											
17	Special trade contractors:											
711	Plumbing, heating, and air conditioning	544	7 079	189 876	533 338	444 538	269 856	185 052	88 800	9 934	2	2
721	Painting, paper hanging, and decorating	248	1 314	24 216	55 843	53 424	37 910	15 554	2 419	1 531	8	6
731	Electrical work	416	5 043	127 875	345 267	340 077	203 415	141 756	5 191	2 476	2	2
74	Masonry, plastering, and tile setting: Masonry, stone setting, and other stonework	175	1 035	17 872	50 915	48 917	29 479	20 064	1 999	1 003	9	6
741	Plastering, drywall, and insulation work	220	2 970	66 949	169 059	157 708	102 439	(D)	11 351	2 098	5	3
742	Terrazzo, tile, marble, and mosaic work	45	295	6 351	16 809	16 653	10 855	(D)	156	137	10	10
743												
75	Carpentering and flooring: Carpentering	283	1 236	18 237	59 305	52 810	30 459	23 068	6 495	1 039	8	8
751	Floor laying and other floorwork	74	443	7 343	16 135	15 520	10 008	5 836	615	89	10	9
752												
761	Roofing and sheet metal work	173	2 014	44 790	136 984	129 274	78 432	51 505	7 710	1 782	4	3
771	Concrete work	300	2 189	42 617	130 771	120 399	72 956	52 949	10 372	4 482	6	5
781	Water well drilling	35	346	6 020	23 003	22 678	15 826	(D)	325	667	9	11
79	Miscellaneous special trade contractors:											
791	Structural steel erection	38	1 021	24 554	44 350	42 761	37 313	5 895	1 589	829	3	3
793	Glass and glazing work	27	424	10 449	37 615	37 364	19 418	20 930	252	362	7	5
794	Excavating and foundation work	178	1 608	28 947	102 095	90 537	72 164	24 625	11 558	7 181	6	5
795	Wrecking and demolition work	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
796	Installing building equipment, n.e.c.	48	890	24 260	63 298	60 596	45 151	(D)	2 702	891	3	2
799	Special trade contractors, n.e.c.	197	887	14 349	41 689	39 098	29 175	10 906	2 591	995	10	8
852	Subdividers and developers, n.e.c.	58	174	3 066	9 486	7 371	5 799	2 125	2 115	*215	18	19
	RACINE SMSA											
	Construction Industries and subdividers and developers ..	340	1 681	30 976	112 369	88 879	53 445	36 792	23 491	1 318	6	5
15,18,17	Construction Industries:											
5	General building contractors and operative builders:											
52	General contractors, residential buildings:											
521	Single-family houses	43	167	1 792	8 987	6 786	3 657	(D)	2 201	*207	33	33
522	Other residential buildings	*5	(S)	(S)	(S)	(S)	(S)	(D)	(S)	-	-	-
531	Operative builders	*3	11	(D)	1 163	(D)	(D)	*110	(D)	-	26	-
54	General contractors, nonresidential buildings:											
541	Industrial buildings and warehouses	4	(D)	(D)	(D)	4 674	3 312	1 377	(D)	(D)	-	7
542	Nonresidential buildings, n.e.c.	7	84	2 179	9 087	4 938	2 706	2 235	4 159	(D)	3	2
6	Heavy construction general contractors:											
611	Highway and street construction	5	115	3 586	17 741	(D)	6 359	6 494	(D)	(D)	(W)	-
62	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction	-	-	-	-	-	-	-	-	-	-	-
622	Water, sewer, and utility lines	12	124	2 843	9 694	8 413	5 281	3 227	*1 281	(D)	26	27
623	Heavy construction, n.e.c.	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
629												
7	Special trade contractors:											
711	Plumbing, heating, and air conditioning	52	250	5 247	17 333	(D)	8 008	6 791	(D)	71	18	-
721	Painting, paper hanging, and decorating	*18	35	366	(D)	(D)	662	120	(D)	(S)	29	-
731	Electrical work	29	187	3 966	9 112	8 865	5 788	3 078	247	127	14	11
74	Masonry, plastering, and tile setting: Masonry, stone setting, and other stonework	*19	79	*1 101	3 737	3 648	1 850	1 798	*89	*71	38	39
741	Plastering, drywall, and insulation work	*18	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-
742	Terrazzo, tile, marble, and mosaic work	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
743												
75	Carpentering and flooring: Carpentering	22	41	359	1 725	1 487	906	589	238	(S)	34	30
751	Floor laying and other floorwork	*10	*10	*105	*350	*350	*278	*78	-	-	63	64
752												
781	Roofing and sheet metal work	28	180	2 809	7 588	7 279	4 689	(D)	309	257	25	14

Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	RACINE SMSA—Con.											
15,16, 17	Construction industries—Con.											
17	Special trade contractors—Con.											
175	Carpentering and flooring—Con.											
1771	Concrete work -----	31	82	851	*3 191	3 139	1 809	*1 334	*52	-	34	32
1781	Water well drilling -----	-	-	-	-	-	-	-	-	-	-	-
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	-	-	-	-	-	-	-	-	-	-	-
1793	Glass and glazing work -----	*2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1794	Excavating and foundation work ----	*15	*50	570	2 181	2 146	1 987	*204	(S)	(D)	45	36
1795	Wrecking and demolition work -----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1796	Installing building equipment, n.e.c. -	*8	*23	*376	*1 637	*1 599	*1 256	*343	(S)	-	61	59
1799	Special trade contractors, n.e.c. ----	*7	26	(D)	(D)	(D)	397	346	(D)	-	17	-
6552	Subdividers and developers, n.e.c. ---	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-

APPENDIX A.

Explanation of Terms

Construction—Is composed of three broad categories: (1) new construction, (2) additions and alterations, and (3) maintenance and repair. "New construction" includes the complete, original erection of structures and essential service facilities and the initial installation of integral equipment such as elevators and escalators. "Additions and alterations" includes construction activity making structural changes to existing facilities. "Maintenance and repair" includes the restoration of existing buildings or other structures or their service facilities, including the replacement of integral parts. Repainting, repapering, reroofing, etc., are also included.

Construction includes:

- special trade contracting such as electrical work, painting, and carpentering on mobile structures (trailers, mobile homes, and ships).
- support activities by construction contractors on mineral properties, except the following: sinking mine shafts; tunneling and shoring mines; erection, repairing and dismantling of drilling rigs; and building well foundations.
- the physical development of land for purposes other than agriculture.
- demolition of existing structures.

Construction does not include:

- shipbuilding.
- manufacturing of other mobile structures.

Number of establishments in business during year—Includes all establishments that were in business at any time during the year. It covers all full-year and part-year operations. Construction establishments which were inactive or idle for the entire year were not included.

Number of establishments in business at end of year—Includes all full-year or part-year establishments that were in business at the end of 1982.

Proprietors and working partners—These data were not collected on the census report forms. The data shown are based on crediting each sole proprietorship establishment with one active proprietor and each partnership establishment with two working partners. The partnership factor was based on information received during a large-scale test conducted in prior years.

All employees—Comprised all full-time and part-time employees on the payrolls of construction establishments who worked or received pay for any part of the pay period including the 12th of March, May, August, and November. Included are all persons on paid-sick leave, paid holidays, and paid vacations during these pay periods. Officers of corporations are included, but proprietors and partners of unincorporated firms are excluded.

Total employment is calculated for each establishment and is derived by summing the construction workers data reported for March, May, August, and November, dividing by 4 and adding to it the number of other employees reported for March.

This approach was designed to simplify the questionnaire format and the reporting requirements of respondents. The industry average of these four selected pay periods approximates very closely the average employment for the year that would be obtained by using pay periods in all 12 months for almost all of the construction industries.

Construction workers—Includes all workers up through the working supervisor level directly engaged in construction operations, such as painters, carpenters, plumbers, and electricians. Included are journeymen, mechanics, apprentices, laborers, truck drivers and helpers, equipment operators, and on-site record keepers and security guards. Supervisory employees above the working supervisor level are excluded from this category but are included in the "other employees" category.

Other employees—Includes employees in executive, purchasing, accounting, personnel, professional, technical activities, and routine office functions. Also included are supervisory employees above the working supervisor level.

Construction worker hours—Includes the total number of hours worked by construction workers. Construction worker hours were collected for each of the four quarters of 1982 and are published in the detailed statistics tables.

Payroll—Includes the gross earnings paid in the calendar year 1982 to all employees on the payroll of construction establishments. It includes all forms of compensation, such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick-leave pay, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of these establishments, if a corporation, but excludes payments to the proprietor or partners, if an unincorporated concern.

Payroll data were collected and tabulated for the employment categories described above and separately for the first quarter of 1982.

Payroll data for auxiliary establishments of multiestablishment companies are not included in these totals. Selected data for these types of establishments are found in the industry summary report and the 1982 Enterprise Statistics reports.

Employer costs for fringe benefits—Represents expenditures made by the employer during 1982 for legally required and voluntary fringe benefit programs for employees. These include employers' Social Security contributions, unemployment compensation, workers' compensation, State temporary disability payments, union negotiated benefits, life insurance premiums, pension plans, insurance premiums on hospital and medical plans, and welfare plans.

All business receipts—Includes all receipts from general contracting, special trade contracting or subcontracting, and land development and improvement work. It also includes all receipts from the sale of land (not recorded as fixed assets of the reporting establishments) and buildings built for sale. All other receipts from the reporting establishment's other business operations (rental of equipment to others, wholesale or retail sales, etc.) are also included.

Money obtained during the year in the form of construction loans is not treated as receipts, nor is money realized from the sale or other disposition of the establishment's fixed assets.

Also excluded are receipts from operations in foreign countries and nonoperating income such as interest and dividends.

All business receipts are broken down in the following detail:

Total construction receipts—Includes all receipts during 1982 for construction work performed by general contractors, special trades contractors or subcontractors, and for land development and improvement work. Included are receipts for maintenance and repair construction work, as well as for new construction and additions and alterations. Also included is the value of any construction work done by the reporting establishments for themselves.

Builders were instructed to include in this item their 1982 receipts from the sale of buildings and other structures built for sale, excluding from these receipts the value of the land (see "land receipts" below) but including the value of any improvements an establishment made to the land. Builders who traded a new home or other building for an existing one were to include the estimated value of the trade-in.

Also included in construction receipts were fees received as sponsors of joint ventures and fees received as agents for owners (for construction work).

Excluded were receipts for separately definable architectural and engineering work done by the reporting establishment for others and receipts from the rental of equipment to others (see "other business receipts" below).

Establishments engaged in the sale and installation of such construction components as plumbing, heating, and central air conditioning supplies and equipment; lumber and building materials; paint, glass, and wallpaper; and electrical and wiring supplies for construction purposes were instructed to include as construction receipts both the receipts for the installation and the receipts for the value (selling price) of the items installed. (Receipts for the selling price of items sold but not installed were to be included in "other business receipts.")

Receipts for work subcontracted in from others—Covers receipts during 1982 for work done by reporting establishments for other construction contractors or builders. Establishments were asked to report the approximate percent of total construction receipts accounted for by such work, and the percentages reported were applied to the reported construction receipts to develop a value for this item.

Land receipts—Includes receipts from the sale of land, whether held for sale or sold in connection with the sale of houses and other structures. It excludes the value of any improvements made to the land prior to the sale. (That value was to be included in construction receipts.)

Other business receipts—Includes business receipts not reported as construction receipts or land receipts. The item includes business receipts from retail and wholesale trade, rental of equipment, manufacturing, transportation, legal service, insurance, finance, rental of property and other real estate operations, and other nonconstruction activities. Receipts for separately definable architectural and engineering work for others are also included here.

Net construction receipts—Derived for each establishment by subtracting the payments made for construction work subcontracted to others from the total construction receipts. (For a further explanation, see "Duplication of Receipts" section in the Introduction.)

Value added—Derived for each establishment, value added is equal to all business receipts, less payments for construction work subcontracted to others and payments for materials, components, supplies, and fuels. For SIC 6552 and SIC 1531, for which land receipts are significant, value added is modified to be equal to all business receipts less land receipts; payments for construction work subcontracted to others; and payments for materials, components, supplies, and fuels. (For a further explanation, see "Duplication of Receipts" section in the Introduction.)

Selected payments—Represents the total of payments for materials, components, and supplies; payments for construction work subcontracted to others; and payments for selected power, fuels, and lubricants. Capital expenditures and rental payments for machinery, equipment, and structures are shown elsewhere.

Payments for materials, components, and supplies include:

- total payments made by the reporting establishments during 1982 for the purchase of all materials, components, and supplies, except fuels, used for construction. (Supplies include expendable tools charged to current accounts.)
- freight and other direct charges incurred by the reporting establishment in acquiring the materials, components, and supplies are also included, as are the value of materials, components, and supplies obtained from other establishments of the respondent's company. Payments represent the amount paid after discounts.
- payments for materials, components, and supplies used by the reporting establishments in the construction of new plants or equipment for themselves, which are chargeable to their fixed assets accounts, are included in this item as are payments for materials bought and resold to others.
- payments made for direct purchases of materials, components, and supplies even though the purchases were subsequently provided to subcontractors for their use.

Payments for materials, components, and supplies include only payments for physical goods and represent the amount paid after discounts.

Excluded from this item are:

- services such as advertising, telephone, telegraph and cable, insurance, developmental and research services of engineering, management, marketing, and other professional consultants, unless their costs are included in the prices paid for materials.
- overhead items such as depreciation charges against plant and equipment, rent and rental allowances, interest payments, royalties, patent fees, payments for land, rental of construction machinery or equipment, and construction work let out to other construction contractors.
- materials furnished to contractors by the owners of projects.

Payments for construction work subcontracted to others include:

- all payments made during 1982 for construction work subcontracted out to other construction contractors. General contractors were instructed to include payments to subcontractors. Builders were instructed to include payments made to general contractors and also payments made directly to subcontractors.
- special trade contractors were instructed to include payments made to other subcontractors. The payments made by the reporting establishment for its purchases of materials, components, and supplies are not included here, even if they were provided to a subcontractor for his use. Such purchases are reported under a separate category, "payments for materials, components, and supplies." However, if payments to subcontractors covered materials purchased directly by the subcontractors, then the total of such payments (including material charges) should have been reported in this item.

Excluded from this item are:

- payments made for the rental of construction machinery or equipment.

Payments for selected power, fuels, and lubricants include:

- payments made for fuels, lubricants, and electric energy purchased during the year from other companies, or received from other establishments of the parent company.
- payments made for natural and manufactured gas, fuel oil, coal and coke products, etc.

Dollar amounts include freight and other direct charges.

Storage capacity for fuels—Data for storage capacity for fuels were collected from heavy construction contractors, other than building construction contractors. Data are published in the detailed statistics tables for the heavy construction industries, i.e., SIC 1611, SIC 1622, SIC 1623, and SIC 1629.

Rental payments for machinery, equipment, and structures—Includes all payments made during 1982 for renting or leasing construction machinery and equipment, transportation equipment, production equipment, office equipment, furniture and fixtures, scaffolding, office space, and buildings. It excludes payments for the rental of land. It also excludes payments made under agreements which, in effect, are conditional sales contracts and which, as a result, are capitalized. Such payments are included in "capital expenditures." It also excludes payments made under agreements which, in effect, are true subcontract construction arrangements; such payments are included in payments for "construction work subcontracted to others."

Selected purchased services—Includes all payments made during 1982 for communication services purchased from other companies or from other establishments of the parent company. It also includes the cost of all repairs made to structures and equipment by outside firms, or from other establishments of the parent companies. It includes only the cost of that repair necessary to maintain property and equipment. It excludes the cost of improvements that increases the value of property, or the cost of adapting it for another use.

Fixed assets and depreciation—Refers to the value of all fixed tangible assets such as buildings and other structures (offices, shops, etc.); stationary machinery (generators, shop equipment, etc.); mobile machinery (tractors, trucks, etc.); and other equipment (office furniture and fixtures, etc.). Not included are such items as current assets, depletable assets, intangible assets, and nondepreciable assets.

Data on fixed assets and depreciation were collected separately for: (1) structures, additions, and related facilities; (2) machinery and equipment; and (3) the total of both.

Respondents were asked to report the gross book value-acquisition cost (original cost or other basis) at the beginning and at the end of 1982. They were also asked to report capitalized expenditures, depreciation charges, and the gross value of assets sold, retired, scrapped, destroyed, etc., during 1982.

Capital expenditures—Refers to all costs actually incurred during 1982 which were or would be chargeable to the fixed assets accounts of the reporting establishments and which were of the type for which depreciation accounts are ordinarily maintained. These expenditures cover the acquisition, the construction, and the major alteration of the reporting establishment's own buildings and other structures, whether purchased, constructed under contract, or constructed by the reporting establishment's own forces; and the acquisition of machinery and equipment. Included are payments made under agreements which, in effect, are conditional sales contracts and which, as a result, are capitalized.

Respondents were instructed not to include any expenditures actually made prior to, or after 1982. For example, if they began construction of a building for an establishment's own use before 1982 and did not complete it until after 1982, they were to report only those costs actually incurred during 1982.

If capital expenditures were not recorded directly at the establishment level but handled centrally at the company or division level, respondents were requested to report appropriate estimates for the individual establishments.

- **New structures and related facilities**—Includes the total expenditures during 1982 for new buildings and structures, major additions and alterations to buildings and structures, and other facilities for the reporting establishment's use (such as roads, docks, tracks, parking lots, and fences). It excludes expenditures for land.
- **New machinery and equipment**—Includes expenditures for new machinery and new equipment. This item also includes capitalized repairs and improvements to used machinery and equipment.
- **New automobiles and trucks intended primarily for highway use**—Includes expenditures for new automobiles and trucks and capitalized repairs and improvements to used automobiles and trucks.
- **Used structures and related facilities**—Covers expenditures for used structures and related facilities acquired from others.
- **Used machinery and equipment**—Includes expenditures for used machinery and equipment acquired from others, including automobiles and trucks. Capitalized repairs and improvements to such equipment are reported as new machinery and equipment.

Value of inventories—Includes all of the materials and supplies that are owned and located within the United States. Excludes materials which are owned by others, but held by the reporting establishment.

Inventories of multiestablishment companies were instructed to be reported by the establishment that is responsible for the inventories even if these inventories were held at a separate location.

Establishments building structures on their own land for sale (operative builders) were instructed to include the value of materials on hand at the end of the year but not to include the structures not yet sold or under construction.

Land subdividers and developers were instructed to include the value of materials on hand at the end of the year, but not include land not yet sold or under construction.

Ownership of construction projects—This item shows the distribution of construction receipts by ownership of the project—Government owned or privately owned. This classification relates to the ownership of the projects or work undertaken and not to the financing. Government owned projects cover those owned by the Federal, Commonwealth, or local governments including public authorities and special districts.

Types of construction—This item provides data by the types of buildings, structures, or other facilities being constructed or worked on by construction establishments in 1982. Respondents were instructed that each building, structure, or other facility should be classified in terms of its function. For example, a restaurant building was to be classified in the restaurant category whether it was designed as a commercial restaurant building or an auxiliary unit of an educational institution. However, complex projects consisting of two or more types of buildings, structures, or other facilities are difficult to classify because sufficient information is seldom available. Therefore, respondents were told to classify complex projects by the major function of the total complex.

In addition, heavy construction contractors and special trade contractors were requested to report the percentage of construction receipts derived from new construction work, including additions and alterations, and from maintenance and repair work for each of these types. General building contractors were requested to report the percentage of construction receipts derived from new construction work, from additions and alterations, and from maintenance and repair work for each of these types. See the definition of "Construction" for the meanings of new construction, additions and alterations, and maintenance and repair.

Building construction:

- **Single-family houses, detached**—Includes all residential buildings constructed for one family use.
- **Single-family houses, attached (includes townhouses)**—Includes all residential buildings with two or more living quarters side by side, completely independent of one another, and separated by an unbroken party or lot line wall from ground to roof.
- **Apartment buildings with two or more apartments**—Includes high-rise, low-rise, or any structures other than containing two or more housing units.
- **Other residential buildings**—Includes hotels, motels, dormitories, and other nonhousekeeping residential structures.
- **Bank buildings and other financial institutions**—Includes all buildings which are used primarily to house banks or other financial institutions.
- **Warehouses**—Includes commercial warehouses, cold storage plants, grain elevators, miniwarehouses, and other storage buildings.
- **Farm buildings, nonresidential**—Includes nonresidential farm buildings such as barns, poultry houses, implement sheds, and farm silos.
- **Industrial buildings**—Includes all industrial buildings and plants which are used to house production and assembly activities. Note that heavy industrial facilities such as blast furnaces, petroleum refineries, chemical complexes, etc., are NOT included in this category, but are shown under nonbuilding construction.
- **Office buildings**—Includes all buildings which are used primarily for office space or for government administrative offices.
- **Other commercial buildings such as stores, restaurants, and automobile service stations**—Includes all buildings which are intended for use primarily in the wholesale, retail, and service trades. For example, complete shopping centers, department stores, drug stores, restaurants, public garages, and auto service stations.
- **Religious buildings**—Includes all buildings which are intended for religious services or functions, such as churches, synagogues, convents, monasteries, and seminaries.

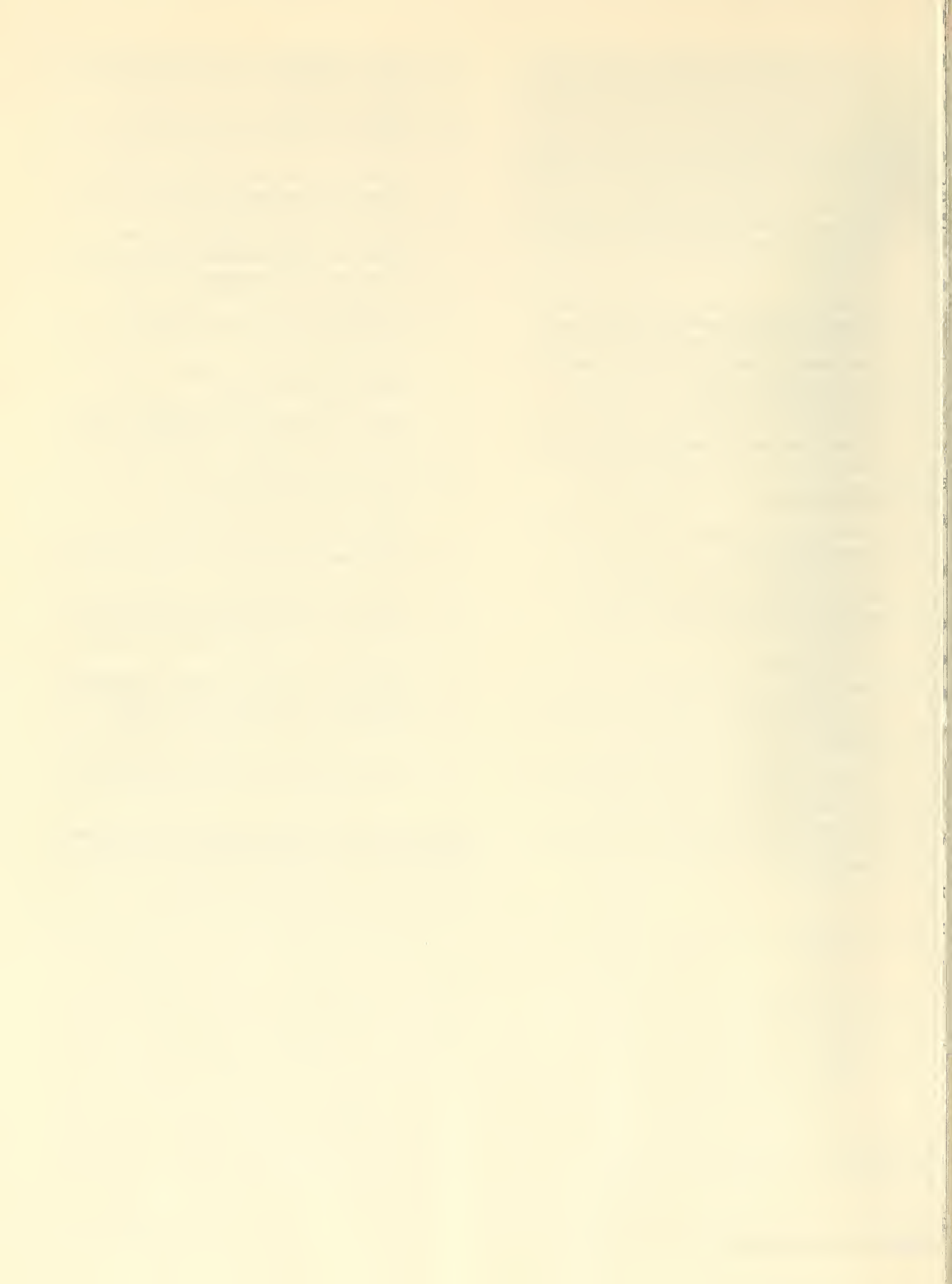
- **Educational buildings**—Includes all buildings which are used directly in administrative and instructional activities, such as colleges, universities, elementary and secondary schools, correspondence, commercial, and trade schools. Libraries, museums and art galleries, as well as laboratories which are not a part of a manufacturing establishment, are also included.
- **Hospitals and institutional buildings**—Includes all buildings which are intended to provide hospital and institutional care, such as clinics, infirmaries, sanitariums, nursing homes, homes for the aged, and orphanages.
- **Amusement, social, and recreational buildings**—Includes buildings which are used primarily for entertainment, social, and recreational activities, such as sports arenas, theaters, music halls, golf and country club buildings, skating rinks, bowling alleys, and indoor swimming pools.
- **Other nonresidential buildings**—Includes buildings which are not classified elsewhere, such as fire stations, bus and air passenger terminals, hangars, etc.

Nonbuilding construction:

- **Outdoor swimming pools**—Includes wading pools and reflecting pools.
- **Elevated highways**—Includes roads, highways, and causeways built on structural supports.
- **Bridges**—Includes viaducts, trestles, and overpasses.
- **Tunnels**—Includes highway, pedestrian, and railway tunnels, etc.
- **Railroad construction**—Includes the construction of railroad beds, tracks, freight yards, and signal towers.
- **Subway construction**—Includes urban mass transit subway systems above or below ground.
- **Dam and reservoir construction**—Includes hydroelectric, water supply, and flood control dams and reservoirs.

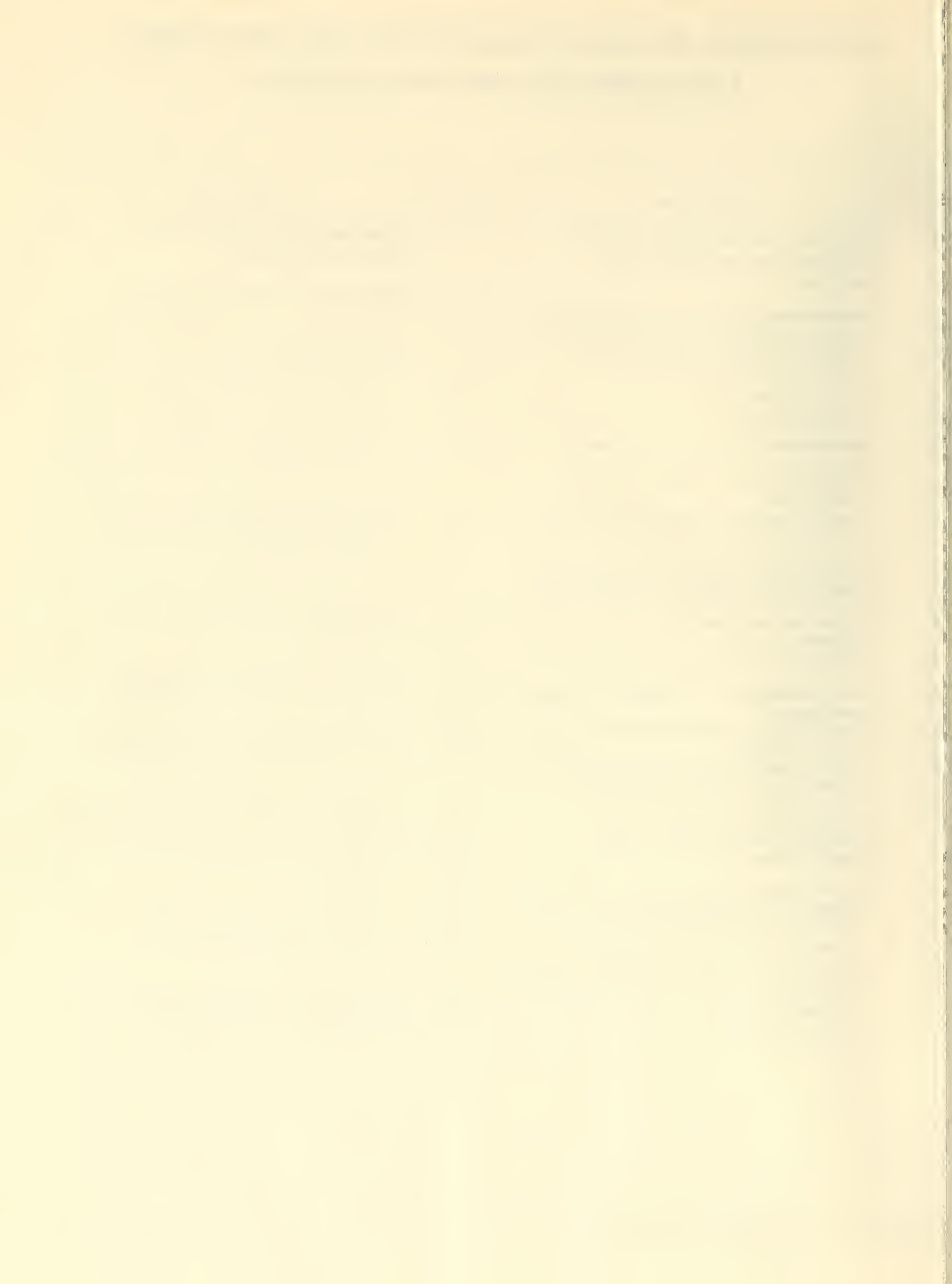
- **Marine construction**—Includes dredging, underwater rock removal, breakwaters, navigational channels, jetties, and locks.
- **Harbor and port facilities**—Includes docks, piers, and wharves.
- **Conservation and development construction**—Includes land reclamation, irrigation projects, drainage canals, dikes, and levees.
- **Power and communication transmission lines, towers, and related facilities**—Includes telephone and telegraph lines, television and radio towers, electric light and power facilities.
- **Power plants, except nuclear**—Includes electric and steam generating plants.
- **Power plants, nuclear**—Includes atomic energy plants and nuclear reactors.
- **Sewers, sewerlines, and related facilities**—Includes sanitary and storm sewers and related facilities.
- **Sewage treatment plants**—Includes sewage treatment and waste disposal plants.
- **Water mains and related facilities**—Includes water supply systems and related facilities.
- **Water treatment plants**—Includes water filtration and water softening plants.
- **Pipeline construction other than sewer or waterlines**—Includes pipelines for the transmission of gas, petroleum products, and liquefied gases.
- **Blast furnaces, petroleum refineries, chemical complexes, etc.**—Includes coke ovens, and mining appurtenances such as tipples and washeries.
- **Other nonbuilding construction**—Includes all types of nonbuilding construction, not included elsewhere.

Location of construction work—This item includes data for each State in which respondents engaged in construction work and the extent (percent of construction receipts) of that work.



APPENDIX B. Standard Industrial Classification Titles for Industry Groups and Industries

SIC code	Industry titles	SIC code	Industry titles
15	BUILDING CONSTRUCTION—GENERAL CONTRACTORS AND OPERATIVE BUILDERS	17	CONSTRUCTION—SPECIAL TRADE CONTRACTORS—Con.
152	General Building Contractors—Residential Buildings	173	Electrical Work Special Trade Contractors
1521	General Contractors—Single-Family Houses	1731	Electrical Work Special Trade Contractors
1522	General Contractors—Residential Buildings, Other Than Single-Family Houses	174	Masonry, Stonework, Tile Setting, and Plastering Special Trade Contractors
153	Operative Builders	1741	Masonry, Stone Setting, and Other Stonework Special Trade Contractors
1531	Operative Builders	1742	Plastering, Drywall, Acoustical and Insulation Work Special Trade Contractors
154	General Building Contractors—Nonresidential Buildings	1743	Terrazzo, Tile, Marble, and Mosaic Work Special Trade Contractors
1541	General Contractors—Industrial Buildings and Warehouses	175	Carpentering and Flooring Special Trade Contractors
1542	General Contractors—Nonresidential Buildings, Other Than Industrial Buildings and Warehouses	1751	Carpentering Special Trade Contractors
16	CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION—GENERAL CONTRACTORS	1752	Floor Laying and Other Floorwork Special Trade Contractors, N.E.C.
161	Highway and Street Construction, Except Elevated Highways	176	Roofing and Sheet Metal Work Special Trade Contractors
1611	Highway and Street Construction Contractors	1761	Roofing and Sheet Metal Work Special Trade Contractors
162	Heavy Construction, Except Highway and Street Construction	177	Concrete Work Special Trade Contractors
1622	Bridge, Tunnel, and Elevated Highway Construction Contractors	1771	Concrete Work Special Trade Contractors
1623	Water, Sewer, Pipe Line, Communication and Power Line Construction Contractors	178	Water Well Drilling Special Trade Contractors
1629	Heavy Construction Contractors, N.E.C.	1781	Water Well Drilling Special Trade Contractors
17	CONSTRUCTION—SPECIAL TRADE CONTRACTORS	179	Miscellaneous Special Trade Contractors
171	Plumbing, Heating (Except Electric), and Air Conditioning Special Trade Contractors	1791	Structural Steel Erection Special Trade Contractors
1711	Plumbing, Heating (Except Electric), and Air Conditioning Special Trade Contractors	1793	Glass and Glazing Work Special Trade Contractors
172	Painting, Paper Hanging, and Decorating Special Trade Contractors	1794	Excavating and Foundation Work Special Trade Contractors
1721	Painting, Paper Hanging, and Decorating Special Trade Contractors	1795	Wrecking and Demolition Work Special Trade Contractors
		1796	Installation or Erection of Building Equipment Special Trade Contractors, N.E.C.
		1799	Special Trade Contractors, N.E.C.
		6552	SUBDIVIDERS AND DEVELOPERS, EXCEPT CEMETERIES



APPENDIX C.

Geographic Divisions and States

NEW ENGLAND STATES

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

MIDDLE ATLANTIC STATES

New Jersey
New York
Pennsylvania

EAST NORTH CENTRAL STATES

Illinois
Indiana
Michigan
Ohio
Wisconsin

WEST NORTH CENTRAL STATES

Iowa
Kansas
Minnesota
Missouri
North Dakota
South Dakota

SOUTH ATLANTIC STATES

Delaware
District of Columbia
Florida
Georgia
Maryland

SOUTH ATLANTIC STATES—Con.

North Carolina
South Carolina
Virginia
West Virginia

EAST SOUTH CENTRAL STATES

Alabama
Kentucky
Mississippi
Tennessee

WEST SOUTH CENTRAL STATES

Arkansas
Louisiana
Oklahoma
Texas

MOUNTAIN STATES

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

PACIFIC STATES

Alaska
California
Hawaii
Oregon
Washington

CHAPTER I

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APPENDIX D.

Standard Consolidated Statistical Areas and Standard Metropolitan Statistical Areas

[Titles and definitions shown for SCSA's and SMSA's are those established by the Office of Management and Budget, as of January 1982]

Standard Consolidated Statistical Areas

SCSA and definition	SCSA and definition	SCSA and definition
Boston-Lawrence-Lowell, Mass.-N.H. Boston, Mass., SMSA Brockton, Mass., SMSA Lawrence-Haverhill, Mass.-N.H., SMSA Lowell, Mass.-N.H., SMSA	Houston-Galveston, Tex. Galveston-Texas City, Tex., SMSA Houston, Tex., SMSA Indianapolis-Anderson, Ind.² Anderson, Ind., SMSA Indianapolis, Ind., SMSA Los Angeles-Long Beach-Anaheim, Calif. Anaheim-Santa Ana-Garden Grove, Calif., SMSA Los Angeles-Long Beach, Calif., SMSA Oxnard-Simi Valley-Ventura, Calif., SMSA Riverside-San Bernardino-Ontario, Calif., SMSA Miami-Fort Lauderdale, Fla. Fort Lauderdale-Hollywood, Fla., SMSA Miami, Fla., SMSA Milwaukee-Racine, Wis. Milwaukee, Wis., SMSA Racine, Wis., SMSA New York-Newark-Jersey City, N.Y.-N.J.-Conn. Jersey City, N.J., SMSA Long Branch-Asbury Park, N.J., SMSA Nassau-Suffolk, N.Y., SMSA New Brunswick-Perth Amboy-Sayreville, N.J., SMSA	New York-Newark-Jersey City, N.Y.-N.J.-Conn.— Con. New York, N.Y.-N.J., SMSA Newark, N.J., SMSA Norwalk, Conn., SMSA Paterson-Clifton-Passaic, N.J., SMSA Stamford, Conn., SMSA Philadelphia-Wilmington-Trenton, Pa.-Del.-N.J.-Md. Philadelphia, Pa.-N.J., SMSA Trenton, N.J., SMSA Wilmington, Del.-N.J.-Md., SMSA Providence-Fall River, R.I.-Mass.² Fall River, Mass.-R.I., SMSA Providence-Warwick-Pawtucket, R.I.-Mass., SMSA San Francisco-Oakland-San Jose, Calif. San Francisco-Oakland, Calif., SMSA San Jose, Calif., SMSA Santa Rosa, Calif., SMSA ¹ Vallejo-Fairfield-Napa, Calif., SMSA Seattle-Tacoma, Wash. Seattle-Everett, Wash., SMSA Tacoma, Wash., SMSA

¹1977 title was Chicago-Gary, Ill.-Ind.; Kenosha, Wis., SMSA has been added.

²New SCSA since 1977 Economic Censuses.

³Santa Rosa, Calif., SMSA added since 1977 Economic Censuses.

Standard Metropolitan Statistical Areas

SMSA and definition	SMSA and definition	SMSA and definition
Abilene, Tex. Callahan County, Tex. Jones County, Tex. Taylor County, Tex. Akron, Ohio Portage County, Ohio Summit County, Ohio Albany, Ga. Dougherty County, Ga. Lee County, Ga. Albany-Schenectady-Troy, N.Y. Albany County, N.Y. Montgomery County, N.Y. Rensselaer County, N.Y. Saratoga County, N.Y. Schenectady County, N.Y. Albuquerque, N. Mex. Bernalillo County, N. Mex. Sandoval County, N. Mex. Alexandria, La. Grant Parish, La. Rapides Parish, La. Allentown-Bethlehem-Easton, Pa.-N.J. Warren County, N.J. Carbon County, Pa. Lehigh County, Pa. Northampton County, Pa.	Altoona, Pa. Blair County, Pa. Amarillo, Tex. Potter County, Tex. Randall County, Tex. Anaheim-Santa Ana-Garden Grove, Calif. Orange County, Calif. Anchorage, Alaska Anchorage Borough, Alaska Anderson, Ind. Madison County, Ind. Anderson, S.C.¹ Anderson County, S.C. Ann Arbor, Mich. Washtenaw County, Mich. Anniston, Ala. Calhoun County, Ala. Appleton-Oshkosh, Wis. Calumet County, Wis. Outagamie County, Wis. Winnebago County, Wis. Asheville, N.C. Buncombe County, N.C. Madison County, N.C.	Athens, Ga.¹ Clarke County, Ga. Jackson County, Ga. Madison County, Ga. Oconee County, Ga. Atlanta, Ga. Butts County, Ga. Cherokee County, Ga. Clayton County, Ga. Cobb County, Ga. De Kalb County, Ga. Douglas County, Ga. Fayette County, Ga. Forsyth County, Ga. Fulton County, Ga. Gwinnett County, Ga. Henry County, Ga. Newton County, Ga. Paulding County, Ga. Rockdale County, Ga. Walton County, Ga. Atlantic City, N.J. Atlantic County, N.J. Augusta, Ga.-S.C. Columbia County, Ga. Richmond County, Ga. Aiken County, S.C.

See footnotes at end of appendix.

Standard Metropolitan Statistical Areas—Con.

SMSA and definition	SMSA and definition	SMSA and definition
Austin, Tex. Hays County, Tex. Travis County, Tex. Williamson County, Tex.	Boston, Mass. Essex County, Mass. (part) Beverly city, Mass. Boxford town, Mass. Danvers town, Mass. Hamilton town, Mass. Lynn city, Mass. Lynnfield town, Mass. Manchester town, Mass. Marblehead town, Mass. Middleton town, Mass. Nahant town, Mass. Peabody city, Mass. Salem city, Mass. Saugus town, Mass. Swampscott town, Mass. Topsfield town, Mass. Wenham town, Mass.	Boston, Mass.—Con. Norfolk County, Mass. (part)—Con. Stoughton town, Mass. Walpole town, Mass. Wellesley town, Mass. Westwood town, Mass. Weymouth town, Mass. Wrentham town, Mass. Plymouth County, Mass. (part) Abington town, Mass. Duxbury town, Mass. Hanover town, Mass. Hanson town, Mass. Hingham town, Mass. Hull town, Mass. Kingston town, Mass. Marshfield town, Mass. Norwell town, Mass. Pembroke town, Mass. Rockland town, Mass. Scituate town, Mass.
Bakersfield, Calif. Kern County, Calif.	Middlesex County, Mass. (part) Acton town, Mass. Arlington town, Mass. Ashland town, Mass. Bedford town, Mass. Belmont town, Mass. Boxborough town, Mass. Burlington town, Mass. Cambridge city, Mass. Carlisle town, Mass. Concord town, Mass.	Suffolk County, Mass. Boston city, Mass. Chelsea city, Mass. Revere city, Mass. Winthrop town, Mass.
Baltimore, Md. Anne Arundel County, Md. Baltimore County, Md. Carroll County, Md. Harford County, Md. Howard County, Md. Baltimore city, Md. ²	Bradenton, Fla. Manatee County, Fla.	Bremerton, Wash.¹ Kitsap County, Wash.
Bangor, Maine¹ Penobscot County, Maine (part) Bangor city, Maine Brewer city, Maine Eddington town, Maine Glenburn town, Maine Hampden town, Maine Hermion town, Maine Holden town, Maine Kenduskeag town, Maine Old Town city, Maine Orono town, Maine Orrington town, Maine Penobscot Indian Island Indian Reservation, Maine Veazie town, Maine Waldo County, Maine (part) Winterport town, Maine	Bridgeport, Conn. Fairfield County, Conn. (part) Bridgeport city, Conn. Easton town, Conn. Fairfield town, Conn. Monroe town, Conn. Shelton city, Conn. Stratford town, Conn. Trumbull town, Conn.	Bridgeton, Conn. Derby city, Conn. Milford city, Conn. Milford town balance, Conn. ³ Woodmont borough, Conn. ³
Baton Rouge, La. Ascension Parish, La. East Baton Rouge Parish, La. Livingston Parish, La. West Baton Rouge Parish, La.	Bristol, Conn. Hartford County, Conn. (part) Bristol city, Conn. Burlington town, Conn.	Bristol, Conn. Litchfield County, Conn. (part) Plymouth town, Conn.
Battle Creek, Mich. Barry County, Mich. Calhoun County, Mich.	Brockton, Mass. Bristol County, Mass. (part) Easton town, Mass.	Brownsville-Harlingen-San Benito, Tex. Cameron County, Tex.
Bay City, Mich. Bay County, Mich.	Burlington, N.C. Alamance County, N.C.	Burlington, N.C. Alamance County, N.C.
Beaumont-Port Arthur-Orange, Tex. Hardin County, Tex. Jefferson County, Tex. Orange County, Tex.	Burlington, N.Y. Essex County, N.Y. Niagara County, N.Y.	Burlington, N.Y. Essex County, N.Y. Niagara County, N.Y.
Bellingham, Wash.¹ Whatcom County, Wash.	Burlington, Vt.¹ Chittenden County, Vt. (part) Burlington city, Vt. Charlotte town, Vt. Colchester town, Vt. Essex Junction village, Vt. Essex town balance, Vt.	
Benton Harbor, Mich.¹ Berrien County, Mich.		
Billings, Mont. Yellowstone County, Mont.		
Biloxi-Gulfport, Miss. Hancock County, Miss. Harrison County, Miss. Stone County, Miss.		
Binghamton, N.Y.-Pa. Broome County, N.Y. Tioga County, N.Y. Susquehanna County, Pa.		
Birmingham, Ala. Jefferson County, Ala. St. Clair County, Ala. Shelby County, Ala. Walker County, Ala.		
Blmarck, N. Dak.¹ Burleigh County, N. Dak. Morton County, N. Dak.		
Bloomington, Ind. Monroe County, Ind.		
Bloomington-Normal, Ill. McLean County, Ill.		
Boise City, Idaho Ada County, Idaho		

See footnotes at end of appendix.

Standard Metropolitan Statistical Areas—Con.

SMSA and definition	SMSA and definition	SMSA and definition
Burlington, Vt.¹—Con. Chittenden County, Vt. (part)—Con. Hinesburg town, Vt. Jericho town, Vt. Jericho village, Vt. Milton town, Vt. Milton village, Vt. Richmond town, Vt. Richmond village, Vt. Shelburne town, Vt. South Burlington city, Vt. St. George town, Vt. Williston town, Vt. Winooski city, Vt. Franklin County, Vt. (part) Georgia town, Vt. Grand Isle County, Vt. (part) South Hero town, Vt.	Columbia, Mo. Boone County, Mo. Columbia, S.C. Lexington County, S.C. Richland County, S.C. Columbus, Ga.-Ala. Russell County, Ala. Chattahoochee County, Ga. Muscogee County, Ga. ⁴ Columbus, Ohio Delaware County, Ohio Fairfield County, Ohio Franklin County, Ohio Madison County, Ohio Pickaway County, Ohio Corpus Christi, Tex. Nueces County, Tex. San Patricio County, Tex. Cumberland, Md.-W. Va.¹ Allegany County, Md. Mineral County, W. Va. Dallas-Fort Worth, Tex. Collin County, Tex. Dallas County, Tex. Denton County, Tex. Ellis County, Tex. Hood County, Tex. Johnson County, Tex. Kaufman County, Tex. Parker County, Tex. Rockwall County, Tex. Tarrant County, Tex. Wise County, Tex. Danbury, Conn. Fairfield County, Conn. (part) Bethel town, Conn. Brookfield town, Conn. Danbury city, Conn. New Fairfield town, Conn. Newtown town, Conn. Redding town, Conn. Litchfield County, Conn. (part) New Milford town, Conn. Danville, Va.¹ Pittsylvania County, Va. Danville city, Va. ² Davenport-Rock Island-Moline, Iowa-Ill. Henry County, Ill. Rock Island County, Ill. Scott County, Iowa Dayton, Ohio Greene County, Ohio Miami County, Ohio Montgomery County, Ohio Preble County, Ohio Daytona Beach, Fla. Volusia County, Fla. Decatur, Ill. Macon County, Ill. Denver-Boulder, Colo. Adams County, Colo. Arapahoe County, Colo. Boulder County, Colo. Denver County, Colo. Douglas County, Colo. Gilpin County, Colo. Jefferson County, Colo. Des Moines, Iowa Polk County, Iowa Warren County, Iowa Detroit, Mich. Lapeer County, Mich. Livingston County, Mich. Macomb County, Mich. Oakland County, Mich. St. Clair County, Mich. Wayne County, Mich. Dubuque, Iowa Dubuque County, Iowa	Duluth-Superior, Minn.-Wis. St. Louis County, Minn. Douglas County, Wis. Eau Claire, Wis. Chippewa County, Wis. Eau Claire County, Wis. El Paso, Tex. El Paso County, Tex. Elkhart, Ind.¹ Elkhart County, Ind. Elmira, N.Y. Chemung County, N.Y. Enid, Okla.¹ Garfield County, Okla. Erie, Pa. Erie County, Pa. Eugene-Springfield, Oreg. Lane County, Oreg. Evanville, Ind.-Ky. Gibson County, Ind. Posey County, Ind. Vanderburgh County, Ind. Warrick County, Ind. Henderson County, Ky. Fall River, Mass.-R.I. Bristol County, Mass. (part) Dighton town, Mass. Fall River city, Mass. Somerset town, Mass. Swansea town, Mass. Westport town, Mass. Newport County, R.I. (part) Little Compton town, R.I. Portsmouth town, R.I. Tiverton town, R.I. Fargo-Moorhead, N. Dak.-Minn. Clay County, Minn. Cass County, N. Dak. Fayetteville, N.C. Cumberland County, N.C. Fayetteville-Springdale, Ark. Benton County, Ark. Washington County, Ark. Fitchburg-Leominster, Mass. Middlesex County, Mass. (part) Shirley town, Mass. Townsend town, Mass. Worcester County, Mass. (part) Fitchburg city, Mass. Leominster city, Mass. Lunenburg town, Mass. Westminster town, Mass. Flint, Mich. Genesee County, Mich. Shiawassee County, Mich. Florence, Ala. Colbert County, Ala. Lauderdale County, Ala. Florence, S.C.¹ Florence County, S.C. Fort Collins, Colo. Larimer County, Colo. Fort Lauderdale-Hollywood, Fla. Broward County, Fla. Fort Myer-Cape Coral, Fla.³ Lee County, Fla. Fort Smith, Ark.-Okla. Crawford County, Ark. Sebastian County, Ark. Le Flore County, Okla. Sequoyah County, Okla. Fort Walton Beach, Fla.¹ Okaloosa County, Fla.

See footnotes at end of appendix.

Standard Metropolitan Statistical Areas—Con.

SMSA and definition	SMSA and definition	SMSA and definition
Fort Wayne, Ind. Adams County, Ind. Allen County, Ind. De Kalb County, Ind. Wells County, Ind.	Hartford, Conn.—Conn. Hartford County, Conn. (part)—Conn. Simsbury town, Conn. South Windsor town, Conn. Suffield town, Conn. West Hartford town, Conn. Wethersfield town, Conn. Windsor Locks town, Conn. Windsor town, Conn. Litchfield County, Conn. (part) New Hartford town, Conn. Middlesex County, Conn. (part) Cromwell town, Conn. East Hampton town, Conn. Portland town, Conn. New London County, Conn. (part) Colchester borough, Conn. Colchester town balance, Conn. Tolland County, Conn. (part) Andover town, Conn. Bolton town, Conn. Columbia town, Conn. Coventry town, Conn. Ellington town, Conn. Hebron town, Conn. Stafford Springs borough, Conn. Stafford town balance, Conn. Tolland town, Conn. Vernon town, Conn. Willington town, Conn.	Jersey City, N.J. Hudson County, N.J.
Fresno, Calif. Fresno County, Calif.	Hickory, N.C.¹ Alexander County, N.C. Catawba County, N.C.	Johnson City-Kingsport-Bristol, Tenn.-Va. Carter County, Tenn. Hawkins County, Tenn. Sullivan County, Tenn. Unicoi County, Tenn. Washington County, Tenn. Scott County, Va. Washington County, Va. Bristol city, Va. ²
Gadsden, Ala. Etowah County, Ala.	Honolulu, Hawaii Honolulu County, Hawaii	Johnstown, Pa. Cambria County, Pa. Somerset County, Pa.
Gainesville, Fla. Alachua County, Fla.	Houston, Tex. Brazoria County, Tex. Fort Bend County, Tex. Harris County, Tex. Liberty County, Tex. Montgomery County, Tex. Waller County, Tex.	Joplin, Mo.¹ Jasper County, Mo. Newton County, Mo.
Galveston-Texas City, Tex. Galveston County, Tex.	Huntington-Ashland, W. Va.-Ky.-Ohio Boyd County, Ky. Greenup County, Ky. Lawrence County, Ohio Cabell County, W. Va. Wayne County, W. Va.	Kalamazoo-Portage, Mich. Kalamazoo County, Mich. Van Buren County, Mich.
Gary-Hammond-East Chicago, Ind. Lake County, Ind. Porter County, Ind.	Huntsville, Ala. Limestone County, Ala. Madison County, Ala. Marshall County, Ala.	Kankakee, Ill. Kankakee County, Ill.
Glens Falls, N.Y.¹ Warren County, N.Y. Washington County, N.Y.	Indianapolis, Ind. Boone County, Ind. Hamilton County, Ind. Hancock County, Ind. Hendricks County, Ind. Johnson County, Ind. Marion County, Ind. Morgan County, Ind. Shelby County, Ind.	Kansas City, Mo.-Kans. Johnson County, Kans. Wyandotte County, Kans. Cass County, Mo. Clay County, Mo. Jackson County, Mo. Platte County, Mo. Ray County, Mo.
Grand Forks, N. Dak.-Minn. Polk County, Minn. Grand Forks County, N. Dak.	Iowa City, Iowa¹ Johnson County, Iowa	Kenosha, Wis. Kenosha County, Wis.
Grand Rapids, Mich. Kent County, Mich. Ottawa County, Mich.	Jackson, Mich. Jackson County, Mich.	Killeen-Temple, Tex. Bell County, Tex. Coryell County, Tex.
Great Falls, Mont. Cascade County, Mont.	Jackson, Miss. Hinds County, Miss. Rankin County, Miss.	Knoxville, Tenn. Anderson County, Tenn. Blount County, Tenn. Knox County, Tenn. Union County, Tenn.
Greeley, Colo. Weld County, Colo.	Jacksonville, Fla. Baker County, Fla. Clay County, Fla. Duval County, Fla. Nassau County, Fla. St. Johns County, Fla.	Kokomo, Ind. Howard County, Ind. Tipton County, Ind.
Green Bay, Wis. Brown County, Wis.	Jacksonville, N.C.¹ Onslow County, N.C.	La Crosse, Wis. La Crosse County, Wis.
Greensboro-Winston-Salem-High Point, N.C. Davidson County, N.C. Forsyth County, N.C. Guilford County, N.C. Randolph County, N.C. Stokes County, N.C. Yadkin County, N.C.	Janesville-Beloit, Wis.¹ Rock County, Wis.	Lafayette, La. Lafayette Parish, La.
Greenville-Spartanburg, S.C. Greenville County, S.C. Pickens County, S.C. Spartanburg County, S.C.		Lafayette-West Lafayette, Ind. Tippecanoe County, Ind.
Hagerstown, Md.¹ Washington County, Md.		Lake Charles, La. Calcasieu Parish, La.
Hamilton-Middletown, Ohio Butler County, Ohio		Lakeland-Winter Haven, Fla. Polk County, Fla.
Harrisburg, Pa. Cumberland County, Pa. Dauphin County, Pa. Perry County, Pa.		Lancaster, Pa. Lancaster County, Pa.
Hartford, Conn. Hartford County, Conn. (part) Avon town, Conn. Bloomfield town, Conn. Canton town, Conn. East Granby town, Conn. East Hartford town, Conn. East Windsor town, Conn. Enfield town, Conn. Farmington town, Conn. Glastonbury town, Conn. Granby town, Conn. Hartford city, Conn. Manchester town, Conn. Marlborough town, Conn. Newington town, Conn. Rocky Hill town, Conn.		Lansing-East Lansing, Mich. Clinton County, Mich. Eaton County, Mich. Ingham County, Mich. Ionia County, Mich.

See footnotes at end of appendix.

Standard Metropolitan Statistical Areas—Con.

SMSA and definition	SMSA and definition	SMSA and definition
Lawrence-Haverhill, Mass.-N.H. Essex County, Mass. (part) Amesbury town, Mass. Andover town, Mass. Georgetown town, Mass. Groveland town, Mass. Haverhill city, Mass. Lawrence city, Mass. Merrimack town, Mass. Methuen town, Mass. North Andover town, Mass. Salisbury town, Mass. West Newbury town, Mass. Rockingham County, N.H. (part) Atkinson town, N.H. Hampstead town, N.H. Kingston town, N.H. Newton town, N.H. Plaistow town, N.H. Salem town, N.H. Windham town, N.H.	Macon, Ga. Bibb County, Ga. Houston County, Ga. Jones County, Ga. Twiggs County, Ga. Madison, Wis. Dane County, Wis. Manchester, N.H. Hillsborough County, N.H. (part) Bedford town, N.H. Goffstown town, N.H. Manchester city, N.H. Merrimack County, N.H. (part) Allenstown town, N.H. Hooksett town, N.H. Pembroke town, N.H. Rockingham County, N.H. (part) Derry town, N.H. Londonderry town, N.H.	Nashua, N.H. Hillsborough County, N.H. (part) Amherst town, N.H. Hudson town, N.H. Merrimack town, N.H. Milford town, N.H. Nashua city, N.H.
Lawton, Okla. Comanche County, Okla.	Mansfield, Ohio Richland County, Ohio	Nashville-Davidson, Tenn. Cheatham County, Tenn. Davidson County, Tenn. Dickson County, Tenn. Robertson County, Tenn. Rutherford County, Tenn. Sumner County, Tenn. Williamson County, Tenn. Wilson County, Tenn.
Lewiston-Auburn, Maine Androscoggin County, Maine (part) Auburn city, Maine Lewiston city, Maine Lisbon town, Maine	McAllen-Pharr-Edinburg, Tex. Hidalgo County, Tex.	Nassau-Suffolk, N.Y. Nassau County, N.Y. Suffolk County, N.Y.
Lexington-Fayette, Ky. Bourbon County, Ky. Clark County, Ky. Fayette County, Ky. Jessamine County, Ky. Scott County, Ky. Woodford County, Ky.	Medford, Oreg.¹ Jackson County, Oreg.	New Bedford, Mass. Bristol County, Mass. (part) Acushnet town, Mass. Dartmouth town, Mass. Fairhaven town, Mass. Freetown town, Mass. New Bedford city, Mass.
Lima, Ohio Allen County, Ohio Auglaize County, Ohio Putnam County, Ohio Van Wert County, Ohio	Melbourne-Titusville-Cocoa, Fla. Brevard County, Fla.	Plymouth County, Mass. (part) Lakeville town, Mass. Marion town, Mass. Mattapoisett town, Mass.
Lincoln, Nebr. Lancaster County, Nebr.	Memphis, Tenn.-Ark.-Miss. Crittenden County, Ark. De Soto County, Miss. Shelby County, Tenn. Tipton County, Tenn.	New Britain, Conn. Hartford County, Conn. (part) Berlin town, Conn. New Britain city, Conn. Plainville town, Conn. Southington town, Conn.
Little Rock-North Little Rock, Ark. Pulaski County, Ark. Saline County, Ark.	Meriden, Conn. New Haven County, Conn. (part) Meriden city, Conn.	New Brunswick-Perth Amboy-Sayreville, N.J. Middlesex County, N.J.
Long Branch-Asbury Park, N.J. Monmouth County, N.J.	Miami, Fla. Dade County, Fla.	New Haven-West Haven, Conn. Middlesex County, Conn. (part) Clinton town, Conn.
Longview-Marshall, Tex.⁴ Gregg County, Tex. Harrison County, Tex.	Midland, Tex. Midland County, Tex.	New Haven County, Conn. (part) Bethany town, Conn. Branford town, Conn. East Haven town, Conn. Guilford town, Conn. Hamden town, Conn.
Lorain-Elyria, Ohio Lorain County, Ohio	Milwaukee, Wis. Milwaukee County, Wis. Ozaukee County, Wis. Washington County, Wis. Waukesha County, Wis.	Madison town, Conn. New Haven city, Conn. North Branford town, Conn. North Haven town, Conn. Orange town, Conn.
Los Angeles-Long Beach, Calif. Los Angeles County, Calif.	Minneapolis-St. Paul, Minn.-Wis. Anoka County, Minn. Carver County, Minn. Chisago County, Minn. Dakota County, Minn. Hennepin County, Minn. Ramsey County, Minn. Scott County, Minn. Washington County, Minn. Wright County, Minn. St. Croix County, Wis.	Wallingford town, Conn. West Haven city, Conn. Woodbridge town, Conn.
Louisville, Ky.-Ind. Clark County, Ind. Floyd County, Ind. Bullitt County, Ky. Jefferson County, Ky. Oldham County, Ky.	Mobile, Ala. Baldwin County, Ala. Mobile County, Ala.	New London-Norwich, Conn.-R.I. Middlesex County, Conn. (part) Fenwick borough, Conn. ⁷ Old Saybrook town, Conn.
Lowell, Mass.-N.H. Middlesex County, Mass. (part) Billerica town, Mass. Chelmsford town, Mass. Dracut town, Mass. Lowell city, Mass. Tewksbury town, Mass. Tyngsborough town, Mass. Westford town, Mass. Hillsborough County, N.H. (part) Pelham town, N.H.	Modesto, Calif. Stanislaus County, Calif.	New London County, Conn. (part) Bozrah town, Conn. East Lyme town, Conn. Griswold town balance, Conn. Groton city, Conn. Groton town balance, Conn.
Lubbock, Tex. Lubbock County, Tex.	Monroe, La. Ouachita Parish, La.	Jewett City borough, Conn. Ledyard town, Conn. Lisbon town, Conn. Montville town, Conn. New London city, Conn.
Lynchburg, Va. Amherst County, Va. Appomattox County, Va. Campbell County, Va. Lynchburg city, Va. ²	Montgomery, Ala. Autauga County, Ala. Elmore County, Ala. Montgomery County, Ala.	
	Muncie, Ind. Delaware County, Ind.	
	Muskegon-Norton Shores-Muskegon Heights, Mich. Muskegon County, Mich. Oceana County, Mich.	

See footnotes at end of appendix.

Standard Metropolitan Statistical Areas—Con.

SMSA and definition	SMSA and definition	SMSA and definition
New London-Norwich, Conn.-R.I.—Con. New London County, Conn. (part)—Con. Norwich city, Conn. Old Lyme town, Conn. Preston town, Conn. Sprague town, Conn. Stonington town, Conn. Waterford town, Conn. Washington County, R.I. (part) Hopkinton town, R.I. Westerly town, R.I.	Orlando, Fla. Orange County, Fla. Osceola County, Fla. Seminole County, Fla. Owensboro, Ky. Daviess County, Ky. Oxnard-Simi Valley-Ventura, Calif. Ventura County, Calif.	Portland, Maine—Con. Cumberland County, Maine (part)—Con. Portland city, Maine Scarborough town, Maine South Portland city, Maine Westbrook city, Maine Windham town, Maine Yarmouth town, Maine York County, Maine (part) Old Orchard Beach town, Maine Saco city, Maine
New Orleans, La. Jefferson Parish, La. Orleans Parish, La. St. Bernard Parish, La. St. Tammany Parish, La.	Panama City, Fla. Bay County, Fla.	Portland, Oreg.-Wash. Clackamas County, Oreg. Multnomah County, Oreg. Washington County, Oreg. Clark County, Wash.
New York, N.Y.-N.J. Bergen County, N.J. Bronx County, N.Y. Kings County, N.Y. New York County, N.Y. Putnam County, N.Y. Queens County, N.Y. Richmond County, N.Y. Rockland County, N.Y. Westchester County, N.Y.	Parkersburg-Marletta, W. Va.-Ohio Washington County, Ohio Wirt County, W. Va. Wood County, W. Va.	Portsmouth-Dover-Rochester, N.H.-Maine¹ York County, Maine (part) Berwick town, Maine Eliot town, Maine Kittery town, Maine South Berwick town, Maine York town, Maine
Newark, N.J. Essex County, N.J. Morris County, N.J. Somerset County, N.J. Union County, N.J.	Pascagoula-Moss Point, Miss. Jackson County, Miss.	Rockingham County, N.H. (part) Greenland town, N.H. Hampton town, N.H. New Castle town, N.H. Newfields town, N.H. Newington town, N.H.
Newark, Ohio¹ Licking County, Ohio	Paterson-Cifton-Passaic, N.J. Passaic County, N.J.	Newmarket town, N.H. North Hampton town, N.H. Portsmouth city, N.H. Rye town, N.H.
Newburgh-Middletown, N.Y.¹ Orange County, N.Y.	Pensacola, Fla. Escambia County, Fla. Santa Rosa County, Fla.	Strafford County, N.H. (part) Barrington town, N.H. Dover city, N.H. Durham town, N.H. Farmington town, N.H. Lee town, N.H.
Newport News-Hampton, Va. Gloucester County, Va. James City County, Va. York County, Va. Hampton city, Va. ² Newport News city, Va. ² Poquoson city, Va. ² Williamsburg city, Va. ²	Peorla, Ill. Peoria County, Ill. Tazewell County, Ill. Woodford County, Ill.	Madbury town, N.H. Rochester city, N.H. Rollinsford town, N.H. Somersworth city, N.H.
Norfolk-Virginia Beach-Portsmouth, Va.-N.C. Currituck County, N.C. Chesapeake city, Va. ² Norfolk city, Va. ² Portsmouth city, Va. ² Suffolk city, Va. ² Virginia Beach city, Va. ²	Petersburg-Colonial Heights-Hopewell, Va. Dinwiddie County, Va. Prince George County, Va. Colonial Heights city, Va. ² Hopewell city, Va. ² Petersburg city, Va. ²	Poughkeepsie, N.Y. Dutchess County, N.Y.
Northeast Pennsylvania Lackawanna County, Pa. Luzerne County, Pa. Monroe County, Pa.	Philadelphia, Pa.-N.J. Burlington County, N.J. Camden County, N.J. Gloucester County, N.J. Bucks County, Pa. Chester County, Pa. Delaware County, Pa. Montgomery County, Pa. Philadelphia County, Pa.	Providence-Warwick-Pawtucket, R.I.-Mass. Bristol County, Mass. (part) Attleboro city, Mass. North Attleborough town, Mass. Norton town, Mass. Rehoboth town, Mass. Seekonk town, Mass.
Norwalk, Conn. Fairfield County, Conn. (part) Norwalk city, Conn. Weston town, Conn. Westport town, Conn. Wilton town, Conn.	Phoenix, Ariz. Maricopa County, Ariz.	Norfolk County, Mass. (part) Plainville town, Mass.
Ocala, Fla.¹ Marion County, Fla.	Pine Bluff, Ark. Jefferson County, Ark.	Worcester County, Mass. (part) Blackstone town, Mass. Millville town, Mass.
Odessa, Tex. Ector County, Tex.	Pittsburgh, Pa. Allegheny County, Pa. Beaver County, Pa. Washington County, Pa. Westmoreland County, Pa.	Bristol County, R.I. Barrington town, R.I. Bristol town, R.I. Warren town, R.I.
Oklahoma City, Okla. Canadian County, Okla. Cleveland County, Okla. McClain County, Okla. Oklahoma County, Okla. Pottawatomie County, Okla.	Pittsfield, Mass. Berkshire County, Mass. (part) Adams town, Mass. Cheshire town, Mass. Dalton town, Mass. Lanesborough town, Mass. Lee town, Mass. Lenox town, Mass. Pittsfield city, Mass. Stockbridge town, Mass.	Kent County, R.I. (part) Coventry town, R.I. East Greenwich town, R.I. Warwick city, R.I. West Warwick town, R.I.
Olympia, Wash.¹ Thurston County, Wash.	Portland, Maine Cumberland County, Maine (part) Cape Elizabeth town, Maine Cumberland town, Maine Falmouth town, Maine Freeport town, Maine Gorham town, Maine	Newport County, R.I. (part) Jamestown town, R.I.
Omaha, Nebr.-Iowa Pottawattamie County, Iowa Douglas County, Nebr. Sarpy County, Nebr.		Providence County, R.I. (part) Burrillville town, R.I. Central Falls city, R.I. Cranston city, R.I. Cumberland town, R.I. East Providence city, R.I. Johnston town, R.I. Lincoln town, R.I. North Providence town, R.I. North Smithfield town, R.I. Pawtucket city, R.I.

See footnotes at end of appendix.

Standard Metropolitan Statistical Areas—Con.

MSMA and definition	MSMA and definition	MSMA and definition
Providence-Warwick-Pawtucket, R.I.-Mass.—Con. Providence County, R.I. (part)—Con. Providence city, R.I. Scituate town, R.I. Smithfield town, R.I. Woonsocket city, R.I. Washington County, R.I. (part) Narragansett town, R.I. North Kingstown town, R.I. South Kingstown town, R.I.	St. Louis, Mo.-Ill. Clinton County, Ill. Madison County, Ill. Monroe County, Ill. St. Clair County, Ill. Franklin County, Mo. Jefferson County, Mo. St. Charles County, Mo. St. Louis County, Mo. St. Louis city, Mo. ²	Springfield, Ill. Menard County, Ill. Sangamon County, Ill.
Provo-Orem, Utah Utah County, Utah	Salem, Oreg. Manon County, Oreg. Polk County, Oreg.	Springfield, Mo. Christian County, Mo. Greene County, Mo.
Pueblo, Colo. Pueblo County, Colo.	Salinas-Seaside-Monterey, Calif. Monterey County, Calif.	Springfield, Ohio Champaign County, Ohio Clark County, Ohio
Racine, Wis. Racine County, Wis.	Salisbury-Concord, N.C.¹ Cabarrus County, N.C. Rowan County, N.C.	Springfield-Chicopee-Holyoke, Mass.-Conn. Tolland County, Conn. (part) Somers town, Conn.
Raleigh-Durham, N.C. Durham County, N.C. Orange County, N.C. Wake County, N.C.	Salt Lake City-Ogden, Utah Davis County, Utah Salt Lake County, Utah Tooele County, Utah Weber County, Utah	Hampden County, Mass. (part) Agawam town, Mass. Chicopee city, Mass. East Longmeadow town, Mass. Hampden town, Mass. Holyoke city, Mass.
Reading, Pa. Berks County, Pa.	San Angelo, Tex. Tom Green County, Tex.	Longmeadow town, Mass. Ludlow town, Mass. Monson town, Mass. Palmer town, Mass. Southwick town, Mass.
Redding, Calif.¹ Shasta County, Calif.	San Antonio, Tex. Bexar County, Tex. Comal County, Tex. Guadalupe County, Tex.	Springfield city, Mass. West Springfield town, Mass. Westfield city, Mass. Wilbraham town, Mass.
Reno, Nev. Washoe County, Nev.	San Diego, Calif. San Diego County, Calif.	Hampshire County, Mass. (part) Belchertown town, Mass. Easthampton town, Mass. Granby town, Mass. Hadley town, Mass. Hatfield town, Mass.
Richland-Kennewick-Pasco, Wash.¹ Benton County, Wash. Franklin County, Wash.	San Francisco-Oakland, Calif. Alameda County, Calif. Contra Costa County, Calif. Marin County, Calif. San Francisco County, Calif. San Mateo County, Calif.	Northampton city, Mass. South Hadley town, Mass. Southampton town, Mass.
Richmond, Va. Charles City County, Va. Chesterfield County, Va. Goochland County, Va. Hanover County, Va. Henrico County, Va. New Kent County, Va. Powhatan County, Va. Richmond city, Va. ²	San Jose, Calif. Santa Clara County, Calif.	Worcester County, Mass. (part) Warren town, Mass.
Riverside-San Bernardino-Ontario, Calif. Riverside County, Calif. San Bernardino County, Calif.	Santa Barbara-Santa Maria-Lompoc, Calif. Santa Barbara County, Calif.	Stamford, Conn. Fairfield County, Conn. (part) Darien town, Conn. Greenwich town, Conn. New Canaan town, Conn. Stamford city, Conn.
Roanoke, Va. Botetourt County, Va. Craig County, Va. Roanoke County, Va. Roanoke city, Va. ² Salem city, Va. ²	Santa Cruz, Calif. Santa Cruz County, Calif.	State College, Pa.¹ Centre County, Pa.
Rochester, Minn. Olmsted County, Minn.	Santa Rosa, Calif. Sonoma County, Calif.	Steubenville-Weirton, Ohio-W. Va. Jefferson County, Ohio Brooke County, W. Va. Hancock County, W. Va.
Rochester, N.Y. Livingston County, N.Y. Monroe County, N.Y. Ontario County, N.Y. Orleans County, N.Y. Wayne County, N.Y.	Sarasota, Fla. Sarasota County, Fla.	Stockton, Calif. San Joaquin County, Calif.
Rockford, Ill. Boone County, Ill. Winnebago County, Ill.	Savannah, Ga. Bryan County, Ga. Chatham County, Ga. Effingham County, Ga.	Syracuse, N.Y. Madison County, N.Y. Onondaga County, N.Y. Oswego County, N.Y.
Rock Hill, S.C.¹ York County, S.C.	Seattle-Everett, Wash. King County, Wash. Snohomish County, Wash.	Tacoma, Wash. Pierce County, Wash.
Sacramento, Calif. Placer County, Calif. Sacramento County, Calif. Yolo County, Calif.	Sharon, Pa.¹ Mercer County, Pa.	Tallahassee, Fla. Leon County, Fla. Wakulla County, Fla.
Saginaw, Mich. Saginaw County, Mich.	Sheboygan, Wis.¹ Sheboygan County, Wis.	Tampa-St. Petersburg, Fla. Hillsborough County, Fla. Pasco County, Fla. Pinellas County, Fla.
St. Cloud, Minn. Benton County, Minn. Sherburne County, Minn. Stearns County, Minn.	Sherman-Denison, Tex. Grayson County, Tex.	Terre Haute, Ind. Clay County, Ind. Sullivan County, Ind. Vermillion County, Ind. Vigo County, Ind.
St. Joseph, Mo. Andrew County, Mo. Buchanan County, Mo.	Shreveport, La. Bossier Parish, La. Caddo Parish, La. Webster Parish, La.	Texarkana, Tex.-Texarkana, Ark. Little River County, Ark. Miller County, Ark. Bowie County, Tex.
	Sloux City, Iowa-Nebr. Woodbury County, Iowa Dakota County, Nebr.	
	Sloux Falls, S. Dak. Minnehaha County, S. Dak.	
	South Bend, Ind. Marshall County, Ind. St. Joseph County, Ind.	
	Spokane, Wash. Spokane County, Wash.	

See footnotes at end of appendix.

Standard Metropolitan Statistical Areas—Con.

SMSA and definition	SMSA and definition	SMSA and definition
Toledo, Ohio-Mich. Monroe County, Mich. Fulton County, Ohio Lucas County, Ohio Ottawa County, Ohio Wood County, Ohio	Washington, D.C.-Md.-Va. Washington, D.C. Charles County, Md. Montgomery County, Md. Prince George's County, Md. Arlington County, Va. Fairfax County, Va. Loudoun County, Va. Prince William County, Va. Alexandria city, Va. ² Fairfax city, Va. ²	Wichita Falls, Tex. Clay County, Tex. Wichita County, Tex. Williamsport, Pa. Lycoming County, Pa. Wilmington, Del.-N.J.-Md. New Castle County, Del. Cecil County, Md. Salem County, N.J. Wilmington, N.C. Brunswick County, N.C. New Hanover County, N.C. Worcester, Mass. Worcester County, Mass. (part) Auburn town, Mass. Berlin town, Mass. Boylston town, Mass. Brookfield town, Mass. Charlton town, Mass. East Brookfield town, Mass. Grafton town, Mass. Holden town, Mass. Leicester town, Mass. Millbury town, Mass. North Brookfield town, Mass. Northborough town, Mass. Northbridge town, Mass. Oxford town, Mass. Paxton town, Mass. Shrewsbury town, Mass. Spencer town, Mass. Sterling town, Mass. Sutton town, Mass. Upton town, Mass. Uxbridge town, Mass. Webster town, Mass. West Boylston town, Mass. Westborough town, Mass. Worcester city, Mass.
Topeka, Kans. Jefferson County, Kans. Osage County, Kans. Shawnee County, Kans.	Falls Church city, Va.² Manassas city, Va.² Manassas Park city, Va.²	
Trenton, N.J. Mercer County, N.J.	Waterbury, Conn. Litchfield County, Conn. (part) Thomaston town, Conn. Watertown town, Conn. Woodbury town, Conn.	
Tucson, Ariz. Pima County, Ariz.	New Haven County, Conn. (part) Beacon Falls town, Conn. Cheshire town, Conn. Middlebury town, Conn. Naugatuck borough, Conn. Prospect town, Conn.	
Tulsa, Okla. Creek County, Okla. Mayes County, Okla. Osage County, Okla. Rogers County, Okla. Tulsa County, Okla. Wagoner County, Okla.	Southbury town, Conn. Waterbury city, Conn. Wolcott town, Conn.	
Tuscaloosa, Ala. Tuscaloosa County, Ala.	Waterloo-Cedar Falls, Iowa Black Hawk County, Iowa	
Tyler, Tex. Smith County, Tex.	Wausau, Wis.¹ Marathon County, Wis.	
Utica-Rome, N.Y. Herkimer County, N.Y. Oneida County, N.Y.	West Palm Beach-Boca Raton, Fla. Palm Beach County, Fla.	Yakima, Wash. Yakima County, Wash.
Vallejo-Fairfield-Napa, Calif. Napa County, Calif. Solano County, Calif.	Wheeling, W. Va.-Ohio Belmont County, Ohio Marshall County, W. Va. Ohio County, W. Va.	York, Pa. Adams County, Pa. York County, Pa.
Victoria, Tex.¹ Victoria County, Tex.	Wichita, Kans. Butler County, Kans. Sedgwick County, Kans.	Youngstown-Warren, Ohio Mahoning County, Ohio Trumbull County, Ohio
Vineland-Millville-Bridgeton, N.J. Cumberland County, N.J.		Yuba City, Calif.¹ Sutter County, Calif. Yuba County, Calif.
Visalia-Tulare-Porterville, Calif.¹ Tulare County, Calif.		
Waco, Tex. McLennan County, Tex.		

¹New SMSA since 1977 Economic Censuses.

²Independent of any county and considered a county equivalent.

³Milford town balance and Woodmont borough added since 1977 Economic Censuses.

⁴Muscogee County has been reinstated as a county. It replaced the county equivalent record for the independent city of Columbus.

⁵1977 title was Fort Myers, Fla.

⁶1977 title was Longview, Tex.

⁷Fenwick borough added since 1977 Economic Censuses.

⁸1977 title was Richland-Kennebec, Wash.

REFERENCE MATERIALS • ORDER FORMS • PUBLICATION CORRECTIONS

Please send me the items marked (X) below.

- ☐ Corrections (if there are any) for this publication — **Construction Industries, East North Central States, CC82-A-3**

If you purchase several different reports from the 1982 Economic Censuses, you should complete this form from each of the reports and return it to the address shown below to receive publication corrections. However, you should complete the following on **only** one of the forms.

- ☐ Guide to the 1982 Economic Censuses and Related Statistics
- ☐ Monthly Product Announcement — A monthly notice of all products released by the Census Bureau during the previous month — useful primarily to persons who plan to purchase publications, tapes, etc., in the future.

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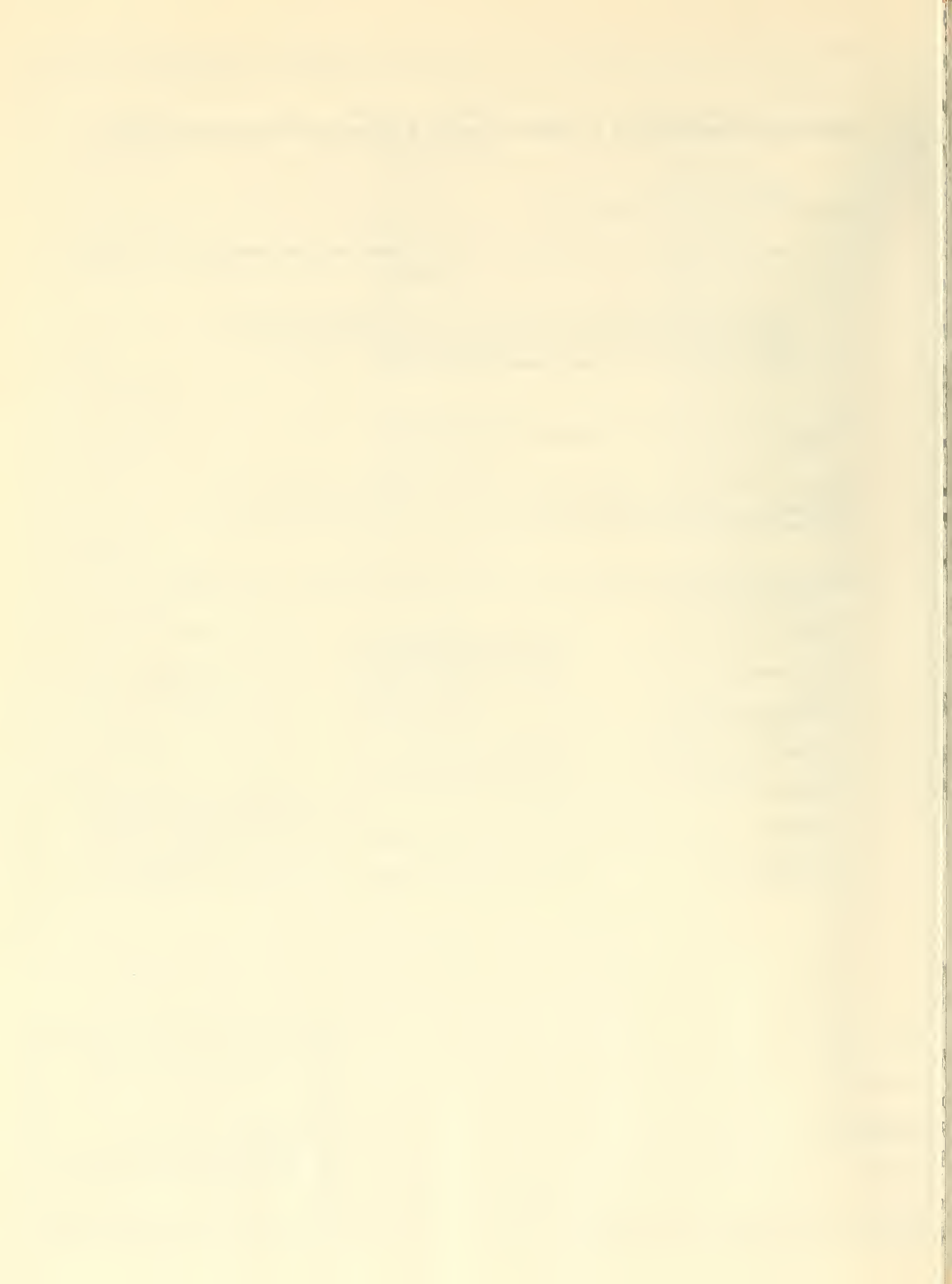
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PUBLICATION PROGRAM

1982 CENSUS OF CONSTRUCTION INDUSTRIES

Publications of the 1982 Census of Construction Industries, containing data on construction establishments in the United States, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, D.C. 20233.

Preliminary Reports

Preliminary data from the 1982 census have been issued in 27 industry reports and 1 summary report. These reports are superseded by more detailed final reports.

Final Reports

Final detailed statistics are issued in separate paperbound reports.

Industry series—28 reports (CC82-I-1 to -28)

Industry series—27 reports (CC82-I-1 to -27). These reports present data for establishments with payroll and are published for each of the 27 industries included in the census. Each industry report presents 1982 data by State and for the United States on number of construction establishments; receipts; employment; hours worked; payrolls; payments to subcontractors; payments for materials; payments for power and fuels; payments for maintenance and repair services; payments for the rental of equipment; value added; capital expenditures; and assets. Limited data for 1977, 1972, and 1967 are shown in addition, more detailed data are shown for 1977 and 1972. Selected data also are provided for 1967. Receipts by type of structure (single-unit or multiunit) and by type of operation (multiunit or single-unit) and by legal form of organization. Selected data also are provided for employment size and receipts size.

U.S. Summary—1 report (CC82-I-28) for establishments with payroll presents limited data for

industry series, except here they are organized by State rather than by industry. Similar data also are presented for selected SMSA's. Data are provided for establishments classified by their employment size and receipts size. Data for establishments with no payroll as well as comparative 1977, 1972, and 1967 figures, on a limited basis, also are shown.

U.S. Summary by State (CC82-A-10). This report summarizes the data, as presented in the nine individual geographic division reports, for establishments with and without payroll.

Special series—1 report (CC82-SP-1)

Legal form of organization and type of operation (CC82-SP-1)—This report presents limited data (number of establishments, number of proprietors and working partners, total employment, and total receipts) for construction establishments without payroll, for construction establishments with payroll, and for the aggregate, classified by industry and by legal form of organization. It also contains selected statistics (number of establishments, employment, payrolls, receipts, payments to subcontractors, net construction receipts, and value added) for construction establishments with payroll, classified by industry and by type of operation (multiunit or single-unit) and by legal form of organization.

Final Report Volume

Final paperbound reports subsequently are assembled and reissued in a final volume.

data also are available on microfiche.

DOMIC CENSUSES REPORTS

Trade, wholesale trade, service industries, manufactures, construction, and transportation also are issued as part of the 1982 Domic Censuses. A separate series of reports covers the censuses for Puerto Rico, Virgin Islands of the United States, Guam, and the Northern Mariana Islands. All published reports and microfiche are available from the Superintendent of Documents, U.S. Government Printing Office, free of charge from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, D.C. 20233.

Geographic area series—10 reports

Division reports (CC82-A-1 to -10) for the States grouped according to the nine divisions of the geographic area series data.

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